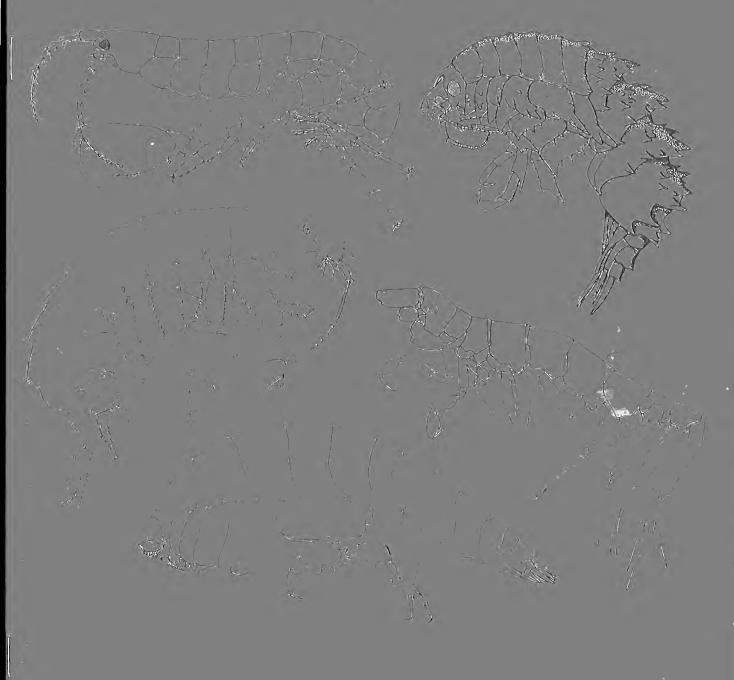
AMPHIPOD NEWSLETTER 19



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Hiroshi Morino and Jason Weeks were unable to continue as regional editors - both have done a very good job.

Wim has been in Sydney for a year (1993), but will be back in Tromsø from January 1994.

ABOUT THE COVER

This issue is dedicated to the memory of Jerry Barnard. The cover shows examples of genera and species named in his honour by appreciative colleagues. Clockwise from the bottom: Eucallisoma barnardi Lowry & Stoddart, Jerbarnia mecochira Croker, Pseudomegamphopus barnardi Myers, Echiniphimedia barnardi Coleman & Andres, Dulichiopsis barnardi Laubitz.

SUBSCRIPTIONS

Enough subscriptions have come in to print AN 19, but the financial situation is still unsatisfactory and Wim has not got his money back. We therefore urge the regional editors to once more collect subscriptions; especially disappointing is the low payment rate of US-subscribers.

WHAT YOU THINK OF THE AMPHIPOD NEWSLETTER

More than 100 subscribers filled out and sent in the questionnaire in AN 17, and most seem to be generally content with the Amphipod Newsletter.

Many of you want more "News from Colleagues". The editors concur, but this is one type of copy that they can't generate themselves! So please write us about your plans, problems, triumphs and frustrations.

Other suggestions were to add authors' addresses to the bibliography, something Wim does not feel it possible to provide as long as he compiles this bibliography in the old-fashioned way. Also, of course, very many addresses are in the list in this issue.

The idea to supplement the address list with fax and E-mail numbers is a good one and maybe the regional editors could coordinate this at the same time as collecting the subscriptions.

In AN 20, we'll have a debate on how "best to describe amphipods" (descriptions and/or illustrations) after an initiative of Oliver Coleman. Diana Laubitz has proposed to ask some young amphipod workers from different countries and disciplines to tell about their dreams and problems, and that seems to be a very attractive idea. Once more, the regional editors are asked to help find likely prospects.

NEXT AMPHIPOD CONFERENCE

During the Jerry Barnard Memorial in Washington in March 1992 various suggestion were bandied about as to where and when the next amphipod meeting is to be held. Many exotic and amphipodologically tempting venues, such as Chile and Yucatan, were proposed, but nothing seems to have come of them.

On the other hand, there is a concrete offer by Prof. Krzysztof Jazdzewski to organize the next amphipod meeting in autumn 1994 in Lodz, Poland. Some of you will have fond memories of earlier visits to Poland, either in 1980 where the amphipod meeting was first planned, or from 1981 when it actually took place, and Krzysztof assured us that it now will be considerably easier to organize a meeting than in those troubled times.

He needs, however, to decide the issue at the latest ultimo October this year, as such meetings need a lot of preparation and fund applications. We urge therefore all colleagues who are interested in participating in the next amphipod meeting, to write to Krzysztof directly, at the latest by 15 October 1993, and let him know what they think of his suggestion of holding the meeting once more in Poland, and whether they have plans to participate.

His address is:

Prof. Krzysztof Jazdzewski Dept. of Invertebrate Zoology and Hydrobiology University of Lodz 12-16 Banacha Str. 90-237 Lodz, Poland

A BRONZE AMPHIPOD

William H. Turner is an American sculpter specializing in animal sculptures. Wim and Jim have seen examples of his work and it is of the highest quality. He is willing to sculpt and cast in bronze an amphipod, maybe *Eurythenes gryllus*. The sculpture would be about 10 cm long. The amphipod would appear to be swimming past a trap or some benthic object. Turner would cast 100 copies. Each one would cost about US\$300 provided that at least 30 people order. Expressions of interest to Jim Lowry by 31 October 1993.

J.L. BARNARD & G.S. KARAMAN 1991. 'THE FAMILIES AND GENERA OF MARINE GAMMARIDEAN AMPHIPODA (EXCEPT MARINE GAMMAROIDS).' RECORDS OF THE AUSTRALIAN MUSEUM SUPPLEMENT 13, 2 Vols, 866 pp.

by

Wim Vader

Review

This monumental monograph is Jerry Barnard's legacy to his colleagues (for with all due respect for Gordon Karaman's important contribution in the early stages, this is very much Jerry's book, in both style and contents). Nothing can of course replace Jerry Barnard the man, and he will be sadly missed as expert, mentor, generous helper and friend for many years to come, but we are very fortunate to have this state-of-the-art overview of the taxonomy and relationships of the gammaridean Amphipoda, as Jerry Barnard saw them. Thanks to the generous assistance of Jim Lowry and his amphipod and publishing team at the Australian Museum, the two - volume monograph has got a very clear design and lay-out, and before his untimely death Jerry had the satisfaction to know that the handbook was in the press.

While the reviewer almost automatically uses the words 'this monumental monograph', the authors themselves with characteristic modesty write in the introduction: 'The present compilation remains at best a stopgap!' (Jerry Barnard was also heard to grumble that 'this book' kept him away from real science for years.) Both viewpoints are right! As the authors themselves were the first to acknowledge, the taxonomy and phylogeny of the gammaridean amphipods, especially at the suprageneric level, are very much in a state of flux. Vast amounts of data are being collected and processed annually, new characters are evaluated, and much more stringent and objective taxonomic methods are being taken into use. Further more, the handbook is for a large part, and necessarily, based upon study of the literature, not the actual type-specimens (what Barnard and Karaman themselves have dubbed 'armchair-revisions'), and in some cases faulty or incomplete observations by earlier authors have therefore found their way into this book. The data on geographic distribution, unchecked by regional workers, suffer especially in this respect. So in a way this handbook, if surely not a stopgap, will probably and hopefully become out-of-date in some respects before long.

But on the other hand the two volumes definitely do constitute a monumental monograph! They represent a tour de force that only a specialist with vast and varied experience and both the wide overview and detailed insight of the world's entire amphipod fauna, such as Jerry Barnard uniquely had, could hope to embark on with any chance of success. Moreover, only someone with his tenacity and altruistic work-ethos could bring the task to fruition.

Compared with Barnard's earlier 1969-handbook, itself deservedly a classic in amphipod taxonomy, this is definitely the deluxe model! Not only have a further 25 years of active amphipod studies and not least the authors' ever growing insights been incorporated, but the present handbook also contains lists of all described species (with references to original and later descriptions) and their geographic distribution. The generic diagnoses have been greatly expanded, and most useful sections have been added on sexual and intrageneric variations, and on differences from related genera. There are many keys to families and genera (unfortunately not all run smoothly because of minor inconsistencies or misprints).

The handbook specifically excludes the marine gammaroids, and for many prominent marine genera such as Gammarus, Melita, Maera, or Bathyporeia the reader is referred to the earlier monographs of Barnard & Barnard (1983). This was no doubt unavoidable, but still rather much a pity.

There is, as is the case in most taxonomic monographs, little here about the biology of the amphipods and what there is, e.g. in the introductory chapters, is often clearly deductions from the morphology of limbs and mouthparts rather than the results of actual field or aquarium observations or even in-depth coverage of the relevant literature. Data on symbiotic associations, my own hobby-horse, for example, are presented very unevenly and somewhat haphazardly. These comments are maybe somewhat unfair, as the handbook clearly never aimed at covering biological data at any depth. Instead it was published 'to aid in the identification of gammaridean genera' and 'to present chapters on morphology, evolutionary trends, geographic distribution and prospecti that are the direct outgrowth of our studies'. In these aims the handbook succeeds magnificently.

How incredibly important and almost indispensable a handbook such as this is for the practising taxonomist in large parts of the world, has first been brought home to me by my present stay in Australia. In Norway - the country of G.O. Sars - regional coverage is so good that it almost seems excessive to use 'a handbook of the entire world' in your daily work. But in Australia the situation is still very different: every amphipod species that I find among my hermit-crabs is strange and unknown to me, and the only sensible way to proceed is to use 'the green Barnard & Karaman'. With the help of this book I can identify the right genera (or find that no existing genus fits), and then go on and see which species have been described from the general area, and where I can find description and illustrations of them. There also are large numbers of very clear detailed illustrations to further assist the identification process.

For many amphipod workers the appearance of this handbook therefore signifies the start of a new era, and Jerry Barnard could not have given us a better legacy than this.

Taxonomic changes in Barnard & Karaman 1991

These changes have been incorporated in the indexes in AN 18 and 19. They are listed here by family, without page references. The many changes that had already been published elsewhere are omitted, where noted, but many will have been overlooked.

Haploops securiger (transferred) to Byblis (The word transferred will be omitted). Ampeliscidae:

Amphilochidae: Gitanogeiton tropica to Amphilochus.

Plumithoe n. gen. for Ampithoe plumicornis (type) and A. hirsuta. Ampithoidae:

Melanesius reduced to subgeneric rank sub Examphithoe.

Ampithoe brasiliensis to Cymadusa. Paradusa pilipes to Cymadusa.

Bateidae: Carinobatea junior synonym of Batea.

? Condukiidae: Otagia n. gen. (incertae sedis) for the insufficiently well known Platyischnopus

neozelanicus.

Corophioidea: Arctolembos raised to generic status with type Lembos arcticus; Autonoe Bruzelius revived, type Gammarus longipes, 11 further spp.; Rudilemboides Barnard revived.

Neomicrodeutopus and Bigrandidierella junior synonyms of Grandidierella.

Gammaropsis alaskensis to Cheirimedeia, G. lina to Audulla, Lemboides crenatipalma

to Aorchoides, Lembos chelatus to Varohios, L. leptocheirus to Xenocheira, L. longipalpus to Columbaora, Leptocheirus aberrans to Goesia, Microdeutopus kraemmeri

to Globosolembos, M. tridens to Lembos, Photis digitata and Ph. distinguenda to Dodophotis, Ph. geniculata to Cheiriphotis.

Lepechinellopsis inaequicaudata to Melita. Relictomoera n. gen. for Paramoera relicta (type) and P. tsushimana. Sternomoera n. Eusiridae:

gen. for Paramoera yezoensis (type), P. hayamanensis and P. japonica.

Rozinante junior syn. of Apherusa; Harpinioidella junior syn. of Harpinioides; Pontogeneiella junior syn. of Prostebbingia; Atyloides and Dolobrotus junior syn. of

Schraderia.

Dexaminidae:

Apherusa translucens to Whangarusa, Halirages bungei to Paracalliopiella, H. batei, H. huxleyanus and H. regis all to Austroregia, Pontogeneia barnardi to Abdia,

Prostebbingia maneroo to Manerogeneia.

Exoedicerotidae: Warreyus junior syn. of Exoediceroides. Iphimediidae:

Paracanthonotozoma junior syn. of Acanthonotozomella; Pseudepimeria and Subepimeria junior syn. of Epimeria; Cypsiphimedia junior syn. of Iphimedia; Maoriphimedia junior

syn. of Labriphimedia.

Iphimedia joubini to Stegopanoploea, Iphimediella discoveryi to Gnathiphimedia

macrops.

Leucothoidae: Leucothoella (valid subgenus) and Leucothopsis junior syn. of Leucothoe. Liljeborgiidae:

Lilljeborgiella junior syn. of Liljeborgia; Ronconoides junior syn. of Listriella.

Lijeborgia epistomata to Isipingus.

Lysianassidae: Bonassa n. gen. for Lysianassa bonairensis. Caeconyx n. gen. for Tmetonyx caeculus.

Concarnes n. gen. for Socarnes concavus. Coximedon n. gen. for Cheirimedon latimanus (type) and C. pectinipalma. Dartenassa n. gen. for Lysianassa dartevellei. Dissiminassa n. gen. for Aruga dissimilis. Falcanassa n. gen. for Lysianassa falcata. Gronella n. gen. for Anonyx groenlandicus. Lysianassina Costa revived for Lysianax longicornis. Macronassa n. gen. for Aruga macromerus (type) and Lysianassa pariter. Martensia n. gen. for Lysianassa martensi. Septcarnes n. gen. for Socarnes septimus.

Tetronychia junior syn. of Hirondellea.

Ambasiopsis fomes to Cedrosella, Anonyx kurilicus to Psammonyx, Aruga subantarctica to Lysianopsis, Hippomedon brevicaudatus to Elimedon, H. whero, possibly also H. manene and H. matikuku, to Paracentromedon, Nannonyx integricauda to Kakanui, Fresnillo fimbriatus to Ocosingo borlus, Orchomene abyssalis to Uristes, O.

groenlandicus to Gronella, O. morbihanensis to Socarnes, O. reducta to Falklandia, O. takoradia to Adeliella, Pachychelium mediterraneum to Prachynella, P. oculatum to Ekelofia, Pseudokoroga rima to Rimakoroga, Schisturella galatheae to Galathella, S. parachelata to Aristiopsis, Socarnes allecto, S. dissimulantia, S. filicornis and S. obesus all to Socarnopsis, S. concavus to Concarnes, S. illudens and S. unidentatus to

Socarnoides, S. septimus to Septcarnes, Tryphosites capadarei to Parschisturella carinata, Uristes induratus to Procyphocaris, U. lepidus to Lepiduristes, U. martensi to

Martensia, U. murrayi to Tryphosella, and Valettiopsis anacanthus to Valettietta.

Oedicerotidae: Cornudilla n. gen. for Westwoodilla cornuta.

Gulbarentsia larseni to Oediceroides lahillei, Oediceroides forensia to Lopiceros, O. brevirostris and O. cystifera to Paraperioculodes, O. pirloti to Paroediceros, O. sinuata to Paroediceroides, Oediceropsis morosa and O. trepadora to Oediceroides, and O.

sinuata to Paroediceroides.

Paracalliopiidae: Paracalliope fernandoi Wignarajah, 1951 is a talitrid. Pardaliscidae: Eperopeus Mills is consistently misspelled Epereopsis.

Phoxocephalidae: Ringaringa n. gen. for Metaphoxus littoralis.

Metaphoxus fultoni to Parametaphoxus, M. littoralis to Ringaringa, Parharpinia

fuegiensis to Fuegiphoxus.

Platyischnopidae: Platyischnopus neozelanicus to Otago.

Pleustidae: Pleustoides junior syn. of Pleusymtes. Parapleustes barnardi and P. honomu to

Tepidopleustes.

Podoceridae: Styloxenodice junior syn. of Parunciola.

Stegocephalidae: Andaniotes simplex to Stegosoladidas, Stegocephaloides katalia and S. vanhoffeni to

Stegocephalopsis, Stegocephalopsis wagini to Stegocephaloides, Stegocephalus latus to

Stegocephalopsis.

Stenothoidae: Hardametopa n. gen. for Metopa nasuta (type) and M. carinata.

Metopoides aurora to Aurometopa, M. aequalis, M. compacta, M. crassicornis and M.

parallelocheir all to Torometopa, Proboloides antarcticus, P. carinatus, P.

crenatipalmatus, P. dentimanus, P. palmatus, P. perlatus, P. porcellanus and P.

stephenseni also all to Torometopa.

Stilipedidae: Parastyra junior syn. of Astyra.

Bathypanoploea australis to Alexandrella,

Synopiidae: Pseudotiron brevidactylus to Metatiron.

Errata

Only those that can cause difficulties in identification have been mentioned here. I am very grateful to Anna Murray and Roger Springthorpe of the Australian Museum for bringing the bulk of the errata to my attention.

p. 64 Couplet 3 should read:

- Coxa 1 small or absent, much smaller than coxa 2 (less than half surface area of coxa 2) and/or mostly hidden by following coxa. Some of following coxae longer than wide. (Occasionally gnathopod 1 absent or vestigial). Section E.

- Coxa 1 usually subequal to coxa 2 or never hidden by following coxae (Occasionally coxa I partly hidden, but all following coxae wider than long (Gnathopod 1 always fully developed)).

- p. 64 Couplet 7b refers to 11, not 1. Couplet 38a refers to Fig. 21 p. 68 p. 69 Couplet 46b refers to 47, not 31 p. 70 Couplet 3b reads antenna 1 4, not antenna 14 p. 74 Couplet 3a Article 4 of antenna 2 strongly expanded. p. 113 Anamixis Figs. 27, 83, 84, not 85 p. 149 Couplet 8b refers to 14, not 15 p. 368 Allorchestes plumicornis is G p. 395 Geographical distribution of *Iphimedia discreta* is area 781, not 681. p. 576 The genus name Eperopeus Mills, 1967 is consistently misspelled Epereopus p. 585 Fig. 105 I = Pereionotus (= Palinnotus)Fig. 106 Taxon- lettering missing on plate. Upper row from left: Heterophlias, Pereionotus, p. 586 Iphinotus, Iphiplateia, Quasimodia, Heterophlias, Iphinotus, Heterophlias. Lower row, Heterophlias, Heterophlias, ?, Heterophlias, Heterophlias, Pereionotus, Heterophlias.
- p. 729 Urothoides mammarta, not mammaria

If other users of the book have noticed further errata, that may lead to confusion, please let me know.

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BAUDIN, J.P., A.F. FRITSCH & J. GEORGES, 1990. Influence of labelled food type on the accumulation and retention of 60 Co by a freshwater fish, *Cyprinus carpio* L.* ____ Water Air Soil Poll. 51, 261-270 (Not seen. *Gammarus pulex* used as food).

BEAUMONT, A.R., P.B. NEWMAN, D.K. MILLS, M.J. WALDOCK, D. MILLER & M.E. WAITE, 1989. Sandy-substrate microcosm studies on tributyltin (TBT) toxicity to marine organisms. _____ Scientia Marina 53, 737-743 (i.a. *Corophium volutator*)

BECKER, D.S., G. R. BILYARD & T.C. GINN, 1990. Comparisons between sediment bioassays and alterations of benthic macroinvertebrate assemblages at a marine superfund site: Commencement Bay, Washington.

Environmental Toxicology and Chemistry 9, 669-686. (i.a. mortality tests on *Rhepoxynius abronius*).

BELL, S.S., 1991. Amphipods as insect equivalents? An alternative view. ____ Ecology 73, 350-354.

BELLAN-SANTINI, D., 1990. Nouvelles espèces d' *Orchomene* s.l. (Crustacea- Amphipoda) des fonds abyssaux. Affinités avec les autres *Orchomene* profonds.

____ Beaufortia 41, 15-23. (*O. kaikai* n.sp. (35°N, 142°E, inside the bivalve *Calyptogena phaseoliformis*), and *O. stocki* n.sp. (13°N, 59°W, in sponge washings). A list of deepwater *Orchomene* s.l. is provided).

BELLAN-SANTINI, D., 1990. Mediterranean deep-sea amphipods: Composition, structure and affinities of the fauna. _____ Progress in Oceanography 24, 275-287 (Not seen).

BERGERSEN, R. & A. KLEMETSEN, 1989. Freshwater eel Anguilla anguilla (L.) from North Norway, with emphasis on occurrence, food, age and downstream migration.

Nordic Journal of Freshwater Research 64 (1988), 54-66. (Gammarus lacustris important prey).

BERMAN, D.I., A.V. ALFIMOV & A.N. LEIRIKH, 1990. (Wintering conditions and cold-resistance of the amphipod, *Traskorchestia ditmari* on the coast of the Sea of Okhotsk.) _____ Biologiya Morya (Vladivostok) 1990-5,31-36 (In Russian, not seen).

BERNINI, F. & P.A. NARDI, 1990. (Observations on the diet of *Acipenser naccarii* Bp. (Osteichthyes, Acipenseridae) in the Pavia stretch of the Po and Ticino rivers). ____ Museo Regionale de Science Naturale Bolletino (Torino) 8, 429-440 (In Italian, not seen. Gammarids dominant prey).

BERTRAN, C.E., 1989. (Zonation and temporal dynamics of the intertidal macroinfauna in the Lingue river estuary (Valdivia, Chile)). _____ Revista Chilense de Historia Naturale 62, 19-32 (In Spanish, not seen).

BERESLOVSKIJ, E.G., 1989. (The feeding of skates, *Raja radiata* and *R. fyllae*, in the Barents and Norwegian Seas). _____ Vopr. Ikhtiol. 29, 994-1002 (In Russian, not seen. Young skates eat many amphipods).

BEUKEMA, J.J., 1991. Changes in composition of bottom fauna of a tidal-flat area during a period of eutrophication. ____ Marine Biology 111, 293-301.

BIERNBAUM, C.K., 1989. Distribution and seasonality of branchiopod and malacostracan crustaceans of the Santee National Wildlife Refuge, South Carolina. _____ Brimleyana 5, 7-30 (i.a. *Hyalella azteca* and *Crangonyx richmondensis*).

BIKUNA, B. de & N. PRAT, 1991. Factors affecting the distribution of gammarids in chalk-streams of Bizkaia (Basque Country Northern Spain). ____ Archiv für Hydrobiologie 122, 463-478.

BLINN, D.W. & R.W. DAVIES, 1990. Concomitant diel vertical migration of a predatory leech and its amphipod prey. ____ Freshwater Biology 24, 401-408 (*Hyalella montezuma*).

BLOMQUIST, S., 1990. Sampling performance of Ekman grab - in situ observations and design

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improvements. ____ Hydrobiologia 206, 245-250.

BLOMQUIST, S., 1991. Quantitative sampling of softbottom sediments: problems and solutions. ____ Marine Ecology Progress Series 72, 295-304.

BOGATOV, V.V., 1991. (Growth and production of amphipods in rivers of southern Primorski Krai (Russian SFSR, USSR)). ____ Gidrobiologyesko Zhurnal 27 (1), 39-46 (In Russian, not seen. *Gammarus lacustris?*).

BOROWSKY, B., 1989. The effects of residential tubes on reproductive behaviors in *Microdeutopus gryllotalpa* (Costa) (Crustacea: Amphipoda). _____ Journal of Experimental Marine Biology and Ecology 128, 117-125.

BOROWSKY, B., 1991. Patterns of reproduction of some amphipod crustaceans and insights into the nature of their stimuli. ____ Pp 33-49 in R.T. Bauer & J.W. Martin (eds). Crustacean sexual biology. Columbia Univ. Press, N.York.

BOROWSKY, B. & P. AITKEN-ANDERS, 1991. Sexually dimorphic free-swimming behavior in the amphipod crustacean *Ampelisca abdita*. ____ Journal of Marine Biology Association UK 71, 655-664.

BOROWSKY, R. & B. BOROWSKY, 1990. Feeding inhibition of the salt-marsh amphipod *Gammarus palustris* Bousfield, 1969 by heat-labile substances in *Ulva lactuca* L. ____ Crustaceana 59, 299-301.

BOTOSANEANU, L. & J.R. HOLSINGER, 1991. Some aspects concerning colonization of the subterranean realm - especially of subterranean waters: a response to Rouch & Danielopol, 1987. _____ Stygologia 6, 11-39.

BOTTUM, D.L. & K.I. JONES, 1990. Species composition, distribution, and invertebrate prey of fish assemblages in the Columbia River Estuary.

Progress in Oceanography 25, 243-270 (Not seen).

BOUDRIAS, M.A., 1991. Methods for the study of amphipod swimming: behavior, morphology, and fluid dynamics. ____ Hydrobiologia 223, 11-25.

BOUSFIELD, E.L., 1990. A new genus and species of hadzioidean amphipod crustacean from anchialine pools in Hawaii. ____ Beaufortia 41, 25-30 (Carinomelita janstocki n. gen. n. sp., a large predatory melitid).

BOUSFIELD, E.W., 1991. New sandhoppers (Crustacea: Amphipoda) from the Gulf Coast of the United States. ____ Gulf Research Reports 8, 271-283 (Deals with Americorchestia n.gen. (type: Orchestia longicornis), A. salomani n.sp. (W. Florida), A. barbarae n.sp. (Texas), and A. heardi n.sp. (Mississippi). With key to all US talitrid genera and to all Americorchestia spp).

BOUTIN, C. & B. IDBENNACER, 1989. Faune stygobie de Sud de l'Anti-Atlas marocain: Premiers résultats.

_____ Revue des Sciences de l'Eau 2, 891-904 (Not seen).

BOWLBY, M.R., E.A. WIDDER & J.F. CASE, 1991. Disparate forms of bioluminescence from the amphipods *Cyphocaris faurei*, *Scina crassicornis* and *S. borealis*.

_____ Marine Biology 108, 247-253.

BRATTEGAARD, T. & J.H. FOSSÅ, 1991. Replicability of an epibenthic sampler. _____ Journal of Marine Biology Association U.K. 71, 153-166.

BRITTON, J.E. & T.J. EIKELAND, 1988. Invertebrate drift. A review. ____ Hydrobiologia 166, 77-93.

BRODEUR, R.D. & W.G. PEARCY, 1990. Trophic relations of juvenile Pacific salmon off the Oregon and Washington coast. _____ Fisheries Bulletin 88, 617-636.

BROWN, A.C. & A. McLACHLAN, 1990. Ecology of sandy shores. ____ Elsevier, Amsterdam, 328 pp (Not seen. Will someone please review this book for AN?)

BRUSCA, R.C. & M.H. THURSTON, 1990. Comments on the proposed designation of *Lysianax cubensis* Stebbing, 1897 as the type species of *Shoemakerella* Pirlot, 1936 (Crustacea, Amphipoda). _____ Bulletin of Zoological Nomenclature 47, 213 (Independent supportive comments by the 2 authors).

BUHL-JENSEN, L. & J.H. FOSSÅ, 1991. Hyperbenthic crustacean fauna of the Gullmarfjord area (western Sweden): species richness, seasonal variation and long-term changes. _____ Marine Biology 109, 245-258.

BURGER, A.E. & D.W. POWELL, 1990. Diving depths and diet of Cassin's Auklet at Reef Island, British Columbia. ____ Canadian Journal of Zoology 68, 1572-1577 (Amph. quite important prey).

BUSCHMANN, A.H., 1991. Amphipod food preference and *Iridaea* spp. (Rhodophyta) spore release and dispersal. _____ Journal of Marine Biology Association UK 71, 891-897.

BUSCHMANN, A.H. & A. BRAVO, 1990. Intertidal amphipods as potential dispersal agents of carpospores of *Iridaea laminarioides* (Gigartinales, Rhodophyta).

_______ Journal of Phycology 26, 417-420.

CAHOON, L.B. & C.R. TRONZO, 1988. A comparison of demersal zooplankton collected at Alligator Reef, Florida, using emergence and reentry traps.

Fisheries Bulletin 86, 838-845.

CAHOON, L.B. & C.R. TRONZO, 1990. New records of amphipods and cumaceans in demersal zooplankton collections from Onslow Bay, North Carolina.

Journal of the Elisha Mitchell Scientific Society 106, 78-84 (Four amphipods new to N. Carolina waters, viz. Ericthonius difformis, Megaluropus agilis, Orchomenella pinguis and Tiron spiniferum.)

CAINE, E.A., 1989. Caprellid amphipod behavior and predatory strikes by fish. _____ Journal of Experimental Marine Biology and Ecology 126, 173-180.

CAINE, E.A., 1991. Reproductive behavior and sexual dimorphism of a caprellid amphipod. _____ Journal of Crustacean Biology 11, 56-63 (Caprella laeviuscula).

CAINE, E.A., 1991. Caprellid amphipods: fast food for the reproductively active. ____ Journal of Experimental Marine Biology and Ecology 148, 27-33.

CAMACHO, A.I. & C. PUCH, 1990. Une methode pour la réalisation de dissection et de préparations provisoires de petits crustacés aquatiques souterrains et interstitiels.

_____ Crustaceana 59, 1-8.

CAMMEN, L.M., S. CORWIN & J.P. CHRISTENSEN, 1990. Electron transport system (ETS) activity as a measure of benthic macrofaunal metabolism.

Marine Ecology - Progress Series 65, 171-182 (i.a. Corophium volutator)

CASADEVALL, M. & J. MATALLONAS, 1990. Feeding habits of *Gnathophis mystax* (Delaroche, 1809) (Anguilliformes, Congridae) in the western Mediterranean.

_____ Journal of Fish Biology 37, 827-829 (Amph. p. 828)

CASAUX, R.J., A.S. MAZZOTTA & E.R. BARRERA-ORO, 1990. Seasonal aspects of the biology and diet of nearshore nototheniid fish at Potter Cove, South Shetland Islands, Antarctica. _____ Polar Biology 11, 63-72 (Gammarid amphipods main food).

CEDERWALL, H., 1990. Diurnal pelagic swimming activity of *Pontoporeia* ____ a waste of energy? ____ Annales Zoologici Fennici 27, 307 (Abstract only).

CHAMIER, A-C., 1991. Cellulose digestion and metabolism in the freshwater amphipod *Gammarus pseudolimnaeus* Bousfield. ____ Freshwater Biology 25, 33-40.

CHARVAT, D.L., W.G. NELSON & T.A. ALLENBOUGH, 1990. Composition and seasonality of sand-beach amphipod assemblages off the East coast of Florida. ____ Journal of Crustacean Biology 10, 446-454.

CHERNYSHEVA, I.V., 1990. Effect of pollution on the benthic fauna of the Lower Don. ____ Gidrobiologyesky Zhurnal 26 (1), 65-70 (Russian translated into English)

CHESSA, L.A., G. BIONDA, M.C. BUIA, M.C. GAMBI, M. LORENTI, R. MAJ, R. MANCONI, M. MARTINELLI, M.G. PINTUS, G.F. RUSSO, M.B. SCIPIONE & E. TARAMELLI, 1989. (A *Posidonia oceanica* bed in North-western Sardinia) ____ Oebalia 15, 99-107. (In Italian).

CHEVRIER, A., P. BRUNEL & D.J. WILDISH, 1991. Structure of a suprabenthic shelf sub-community of gammaridean Amphipoda in the Bay of Fundy compared with similar sub-communities in the Gulf of St. Lawrence.

Hydrobiologia 223, 81-104.

CHILTON, E.W., 1990. Macroinvertebrate communities associated with three aquatic macrophytes

(Ceratophyllum demersum, Myriophyllum spicatum, and Vallisneria americana) in Lake Onalaska, Wisconsin.

_____ Journal of Freshwater Ecology 5, 455-466 (Hyalella azteca most abundant).

CHILTON, E.W. & F.J. MARGRAF, 1990. Effects of fish predation on invertebrates associated with a macrophyte in Lake Onalaska, Wisconsin. _____ Journal of Freshwater Ecology 5, 289-296 (i.a. *Hyalella azteca*)

CHRISTIANSEN, B., O. PFANNKUCHE & H. THIEL, 1990. Vertical distribution and population structure of the necrophagous amphipod *Eurythenes gryllus* in the West-European basin. ____ Marine Ecology - Progress Series 66, 35-45.

CIAVATTI, G., 1989. (Talitrids (Crustacea, Amphipoda) on the beaches of La Guadeloupe; Description of two new species). ____ Ann. Inst. océanogr. 65, 127-146 (In French, not seen. Deals with Floresorchestia guadalupensis n.sp., Tethorchestia karukarae n.sp., Platorchestia platensis, Talorchestia sulensonii and Tethorchestia antillensis).

COLEMAN, C.O., 1989. On the nutrition of two antarctic Acanthonotozomatidae (Crustacea: Amphipoda). Gut contents and functional morphology of mouthparts. _____ Polar Biology 9, 287-294 (Echiniphimedia hodgsoni and Maxilliphimedia longipes).

COLEMAN, C.O., 1990. Two new Antarctic species of the genus *Epimeria* (Crustacea: Amphipoda: Paramphithoidae), with description of juveniles. ______ Journal of the Royal Society of New Zealand 20, 151-178 (Deals with *E. grandirostris*, *E. oxicarinata* n. sp. (61°10'S, 55°58'W), and *E. pulchra* n.sp. (60°43'S, 45°31'W). Also the much smoother juveniles of both new spp are described and illustrated.)

COLEMAN, C.O., 1990. Bathypanoploea schellenbergi Holman & Watling, 1983, an antarctic amphipod (Crustacea) feeding on Holothuroidea. ____ Ophelia 31, 197-205.

COLEMAN, C.O., 1990. Anatomy of the alimentary canal of *Parandania boecki* (Stebbing, 1888) (Crustacea, Amphipoda, Stegocephalidae) from the Antarctic Ocean.

_____ Journal of Natural History 24, 1573-1585 (A Cnidarian feeder).

COLEMAN, C.O., 1991. Comparative fore-gut morphology of Antarctic Amphipoda (Crustacea) adapted to different food sources. ____ Hydrobiologia 223, 1-9.

COLEMAN, C.O. & J.L. BARNARD, 1991. A review of the genus *Pariphimedia* (Crustacea: Amphipoda: Iphimediidae), with redescription of two species from the Southern Ocean. ____ Invertebrate Taxonomy 5, 527-539 (With diagnosis, key to spp. and complete redescription of *P. integricauda* and *P. normani*.)

COLEMAN, C.O. & J.L. BARNARD, 1991. Redescription of two species of *Pseudiphimediella* from

the Southern Ocean (Amphipoda: Iphimediidae). Proceedings of the Biological Society of Washington 104, 76-90 (*P. nodosa* and *P. glabra*).

COLEMAN, C.O. & J.L. BARNARD, 1991. Revision of Iphimediidae and similar families (Amphipoda: Proceedings of the Biological Gammaridea). Society of Washington 104, 253-268 (Deals with the following families, with keys and diagnoses: Amathillopsidae revived (monotypic), Epimeriidae (=Paramphithoidae auct.) with the genera Paramphithoe (type), Actinacanthus, Epimeria, Epimeriella, Metepimeria and Uschakoviella; Acanthonotozomellidae n. fam., with the genera Acanthonotozomella (type), Acanthonotozomoides, Acanthonotozomopsis and Amatiguakius; Acanthonotozomatidae (now monotypic); Ochlesidae, with the genera Ochlesis (type), Curidia, Meraldia and Ochlesodius; Dikwidae n.fam. (monotypic); Iphimediidae, with the genera Iphimedia (type), Anisoiphimedia, Anchiphimedia, Coboldus, Echiniphimedia, Gnathiphimedia, Iphimediella, Labriphimedia, Maxilliphimedia, Nodotergum, Paranchiphimedia, Pariphimedia, Pseudiphimediella and Stegopanoploea; Odiidae n.fam., with the genera Odius (type) and Postodius; Astyridae (in paper consistently misspelled Astryidae), with the genera Astyra (type) and Eclysis; Stilipedidae, with the genera Stilipes (type), Bathypanoploea, Alexandrella and Astyroides; Lafystiidae (monotypic here, since *Paralafystius* and *Protolafystius*, both Bousfield, 1987 apparently have been overlooked. WV) and Laphystiopsidae (also monotypic, since Prolaphystiopsis here is tentatively synonymized with Laphystiopsis). Otherwise, Epimeriella victoria is removed to Epimeria, Bathypanoploea is transferred to the Stilipedidae, and Epimeriella returned to the Epimeriidae).

COLEMAN, C.O. & J.L. BARNARD, 1991. *Curidia magellanica*, new species, from Magellan Strait (Crustacea: Amphipoda: Ochlesidae). _____ Proceedings of the Biological Society of Washington 104, 269-278 (With a review of the Ochlesidae, its genera and species, and a key to all species).

COLEMAN, C.O. & J.L. BARNARD, 1991. Amatiguakius forsberghii, a new genus and species from Alaska (Marine Amphipoda: Epimeriidae).

Proceedings of the Biological Society of Washington 104, 279-287 (In spite of the title, this new taxon from Amatiguchi, Aleutian Isl., is not classified in the Epimeriidae, but in the recently erected family Acanthonotozomellidae).

CONLAN, K.E. 1983 (strangely omitted in A.N. earlier). The amphipod superfamily Corophioidea in the northeastern Pacific region 3. Family Isaeidae: systematics and distributional ecology. _____ National Museum of Natural Sciences, Ottawa, Publications in Natural Sciences 4, 1-75 (A further issue in the series of W. Canadian and Alaskan amphipods. Thirty- one species are described, of which the following are new: Gammaropsis ellisi (Br. Col.). G. shoemakeri (= Eurystheus tenuicornis var. lobata Shoemaker) (Vancouver Isl., B.C.), Paraeurystheus tzvetkovae (Aleutian Isl.), Podoceropsis amchitkensis

(Al. Isl.), P. angustimana (Vancouver Isl., B.C.), P. chionoecetophila (Oregon, from the Tanner Crab, Ch. tanneri), P. setosa (Al. Isl.), Cheirimedeia macrocarpa americana n.ssp. (B.C.), C. macrodactyla (St. Lawrence Isl., Alaska), C. similicarpa (Vancouver Isl., B.C.), Photis macinerineyi Victoria, B.C.), P. oligochaeta (B.C.), P. pachydactyla (Vancouver Isl. B.C.), and P. parvidous (Vancouver Isl. B.C.). As the result of a numerical analysis, the genera Paraeurystheus and Podoceropsis are kept apart from Gammaropsis, G. dentatus is transferred to Paraeurystheus, P. gurvitzi to Gammaropsis and Protomedeia dulkeiti, P. gurjanovae, P. palmata and P. macrocarpa to the rediagnosed genus Cheirimedeia).

CONLAN, K.E., 1990. Revision of the crustacean amphipod genus Jassa Leach (Corophioidea: Ischyroceridae). ____ Canadian Journal of Zoology 68, 2031-2075 (A long awaited and much needed revision of this difficult genus. Deals with J. fenwicki n.sp. (Snares, N.Z.), J. justi n.sp. (Macquarie Isl. subantarctic), J. alonsoae n.sp. (S. Georgia), J. hartmannae n. sp. (Snares, N.Z.), J. gruneri n. sp. (Tasmania), J. staudei n.sp. (Br. Columbia, Canada), J. marmorata, J. oclairi n.sp.(Amchitka Isl., Alaska), J. morinoi n. sp. (Tababe Bay, Japan), J. slatteryi n.sp. (California), J. carltoni n.sp. (California), J. borowskyae n.sp. (Br. Columbia, Canada), J. myersi n.sp. (California), J. ingens, J. shawi n.sp. (Br. Columbia, Canada), J. thurstoni n.sp. (S. Orkney Isl., subantarctic), J. pusilla, J. falcata and J. herdmanni. A key to all spp. is also provided).

CONLAN, K.E., 1991. Precopulatory mating behavior and sexual dimorphism in the amphipod Crustacea. _____ Hydrobiologia 223, 255-282.

COREY, S.6, 1990. Distributional patterns of Amphipoda in the Bay of Fundy region, Canada. ____ Crustaceana 58, 291-308.

CORREA CRUZ, M., 1990. (Estimation of the caloric content of *Talorchestia margaritae* (Talitridae: Amphipoda). ____ Boletim dell Instituto Oceanographico de Venezuela, Universidad Oriente 24 (1985), 11-14 (In Spanish, not seen.)

COSTELLO, M.J., J.M.C. HOLMES, D. McGRATH & A.A.MYERS, 1990. A review and catalogue of the Amphipoda (Crustacea) in Ireland. _____ Irish Fisheries Investigations Series B. (Marine) 33 (1989), 1-70 (Lists Irish records of spp recorded in and around Ireland, down to 200 m depth. An additional 47 spp are mentioned from deeper water off the Irish West coast. All you ever wanted to know about Ireland's amphipods).

CRIPPS, G.C. & J. PRIDDLE, 1991. Hydrocarbons in the Antarctic marine environment.

Science 3, 233-250 (A review paper.)

CRISP, D.J. & B. MWAISEJE, 1989. Diversity in intertidal communities with special reference to the *Corallina officinalis* community. ____ Scientia Marina 53. 365-372.

CROY, M.I. & R.N. HUGHES, 1991. The role of

learning and memory in the feeding behavior of the fifteen-spined stickleback, *Spinachia spinachia*. _____ Animal Behaviour 41, 149-159 (*Gammarus locusta* as prey).

CROY, M.I. & R.N. HUGHES, 1991. The influence of hunger on feeding behaviour and on the acquisition of learned foraging skills by the fifteen-spined stickleback, *Spinachia spinachia*. ____ Animal Behaviour 41, 161-170 (*Gammarus locusta* as prey).

CULVER, D.C., T.C. KANE, D.W. FONG, R. JONES, M.A. TAYLOR & S.C. SAUEREISEN, 1990. Morphology of cave organisms - is it adaptive? _____ Memoires de Biospéologie 17, 13-26.

CURRAS, A. & J. MORA, 1991. (Benthic communities of the Ria del Eo (Galicia- Asturias, N.W. Spain).) _____ Cahiers de Biologie Marine 32, 57-81 (In Spanish)

CYRUS, D.P. & T.J. MARTIN, 1988. Distribution and abundance of the benthos in the sediments of Lake Cubhu: A freshwater coastal lake in Zululand, South Africa. _____ Journal of the Limnological Society of South Africa 14, 93-101 (Grandidierella lignorum and Corophium triaenonyx numerically dominant.)

DAILEY, M.D. & W.K. VOGELBEIN, 1991. Parasite fauna of three species of Antarctic whales with reference to their use as potential stock indicators. ____ Fisheries Bulletin 89, 355-365 (Cyamus balaenopterae on Balaenoptera acutorostrata, no cyamids on B. borealis or Physeter.)

DANIEL, P.A. & A.I. ROBERTSON, 1990. Epibenthos of mangrove waterways and open embayments: Community structure and the relationship between exported mangrove detritus and epifaunal standing stock.

____ Estuarine Coastal and Shelf Science 31, 599-619.

DANIELOPOL, D.L., 1990. The origin of the anchialine cave fauna-the 'deep sea' versus the 'shallow water' hypothesis tested against the empirical evidence of the Thaumatocyprididae (Ostracoda). _____ Bijdragen tot de Dierkunde 60, 137-143. (The author prefers the 'shallow water' hypothesis.)

DAUVIN, J-C., 1988. Rôle du macrobenthos dans l'alimentation des poissons demersaux vivant sur les fonds de sediments fins de la Manche Occidentale. _____ Cahiers de Biologie Marine 29, 445-467.

DAUVIN, J-CL. & D. BELLAN-SANTINI, 1990. An overview of the amphipod genus *Haploops* (Ampeliscidae). _____ Journal of Marine Biology Association UK 70, 887-903 (Comprises 15 valid spp. A key to females is provided, as well as data on ecology and distribution.)

DAUVIN, J.Cl., A. IGLESIAS & F. GENTIL, 1991. Nouvelles espèces pour l'Inventaire de la Faune Marine de Roscoff-Crustacés Amphipodes, Cumacés et Decapodes, Mollusques Gastropodes et Ascidies. _____ Cahiers de Biologie Marine 32, 121-128 (Adds *Iphimedia*

nexa, I. perplexa, I. spatula, Gitana sarsi, Peltocoxa brevirostris, Calliopius laeviusculus, Leucothoe procera, Normanion chevreuxi, Socarnes filicornis, Tryphosella horingi, T. minima, Cheirocratus assimilis & Stenopleustes nodifer.)

DAY, K.E. & I.M. SCOTT, 1990. Use of acetylcholinesterase activity to detect sublethal toxicity in stream invertebrates exposed to low concentration of organophosphate insecticides. ____ Aquatic Toxicology 18, 101-113 (i.o. *Hyalella azteca*)

DeBLOIS, E.M. & W.C. LEGGETT, 1991. Functional responses and potential impact of invertebrate predators on benthic fish eggs: analysis of the *Calliopius laeviusculus* - capelin (*Mallotus villosus*) predator-prey system. ____ Marine Ecology - Progress Series 69, 205-216.

DE BROYER, C & M. KLAGES, 1990. Studies on amphipod biology. _____ Berichte zu Polar-forschung 68, 113-115.

DE BROYER, C. & M. KLAGES, 1990. The role of the gammaridean amphipods in the eastern Weddell Sea benthic communities. _____ Belgian Journal of Zoology 120, Supplement 1, ? (Abstract only).

DE BROYER, C. & M. KLAGES, 1991. A new *Epimeria* (Crustacea, Amphipoda, Paramphithoidae) from the Weddell Sea. ____ Antarctic Science 3, 159-166 (*E. rubrieques* n.sp., with data on its biology. A key to adult antarctic *Epimeria* is given.)

DE BROYER, C. & W. VADER, 1990. Revision and notes on the biology of *Orchomenella recondita* (Stasek, 1958) (Amphipoda, Lysianassoidea), an associate of sea anemones. ____ Beaufortia 41, 31-38 ('Allogaussia' recondita, an obligate endosymbiont of the sea anemone Anthopleura elegantissima, is here transferred to Orchomenella (Orchomenella), as the most apomorphic species in this genus.)

DEHDASHTI,B. & D.W. BLINN, 1991. Population dynamics and production of the pelagic amphipod *Hyalella montezuma* in a thermally constant system. _____ Freshwater Biology 25, 131-141.

DEHDASHTI, B & D.V. LIGHTNER, 1991. Observations on the biology of *Hyalella azteca* (Amphipoda) in a closed system. A study of a model system in microgravity.

____ Crustaceana 61, 233-340.

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GRIFFITHS, C.L.,1989. The Ingolfiellidae (Crustacea:

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——Pp. 487-501 in B. Morton (ed.). The marine flora and fauna of Hong Kong and southern China. Proc. 2. int. mar. Biol. Workshop. Hong Kong Univ. Press, Hong Kong (Deals with Guernea (G.) sombati n.sp., G. (Prinassus) longidactyla n.sp. and G. (P.) mackiei n.sp., all from Hong Kong.)

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HIRAYAMA, A., 1990. A new species of the genus *Paramoera* Crustacea: Amphipoda) from the intertidal zone of Hokkaido, northern Japan. _____ Zoological Science 7, 955-959 (*P. hanamurai* n.sp., from Shiriuchi, Hokkaido).

HIRAYAMA, A., 1990. A new species of the genus *Pontogeneia* (Crustacea, Amphipoda) from Matsykawaura inlet, Fukushima prefecture, Japan. _____ Beaufortia 41, 83-89 (*P. stocki* n.sp.)

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(Hadziidae) from anchihaline caves on the Yucatan peninsula in Mexico. _____ Beaufortia 41, 99-107. (Tuluweckelia cernua n.sp. is close to Mayaweckelia).

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HOLTHUIS, L.B. & E.L. BOUSFIELD, 1991. New information on *Pephredo* and *Lepleurus*, two genera of Amphipoda or supposed Amphipoda described by C.S. Rafinesque. ____ Crustaceana 61, 217-222 (*Pephredo potamogeti* Raf. is probably a senior synonym of *Gammarus fasciatus*: The name is, however, suppressed by the Int. Comm. on Nomenclature. *Lepleurus rivularis* Raf. is not an amphipod at all, but an aquatic insect larva, maybe Neuroptera. The 1979 establishment of the type of *Gammarus minus* as neotype of *Lepleurus* is therefore unfortunate.)

HUGHES, R.G. & I.M. HORSFALL, 1990. Differences in the swimming behaviour of the amphipod *Corophium volutator* from different populations. _____ Journal of Marine Biology Association UK 70, 143-148.

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JAZDZEWSKI, K. & C. DE BROYER, 1990. Morphology and systematic position of the antarctic and sub-antarctic synopiid *Cardenio paurodactylus*, 1888 (Crustacea, Amphipoda). ____ Beaufortia 41, 129-133 (A redescription shows that this genus, hitherto in its own family, is a synopiid).

JAZDZEWSKI, K. & A. KONOPACKA,1990. (Interesting locality of the Pontocaspian gammarid *Echinogammarus ischnus* (Stebbing, 1898) (Crustacea, Amphipoda) in Poland.) _____ Przeglad Zoologii 34, 101-112 (In Polish, not seen).

JAZDZEWSKI, K., W. TEODORCZYK, J. SICINSKI & B. KONTEK, 1991. Amphipod crustaceans as an important component of zoobenthos of the shallow Antarctic sublittoral. ____ Hydrobiologia 223, 105-117.

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(Pallas) and *Corophium arenarium* Crawford (Crustacea: Amphipoda): Effects on survival, reproduction and recruitment. _____ Journal of Experimental Marine Biology and Ecology 137, 1-24.

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Bulletin of the Zoological Museum of Amsterdam 12, 117-144 (Deals with Eohaustorius stocki n.sp. (Pusan), E. longidactylus n. sp. (prov. Chungnam), E. spinigerus n.sp. (prov. Chungnam), and E. setulosus n.sp. (Pusan). A key to all Eohaustorius is provided).

JOHNSON, I.T. & M.B. JONES, 1990. Effect of zinc on osmoregulation of *Gammarus duebeni* (Crustacea: Amphipoda) from the estuary and the sewage treatment works at Looe, Cornwall. ____ Ophelia 31, 187-196.

JOHNSON, R.K. & T. WIEDERHOLM, 1990. Long-term studies of profundal zoomacrobenthos in Sweden's great lakes: implications of biotic interactions. _____ Annales Zoologici Fennici 27, 291-295.

JONES, A.R., A. MURRAY & R.E. MARSH, 1991. Patterns of abundance of exoedicerotid amphipods on sandy beaches near Sydney, Australia. _____ Hydrobiologia 223, 119-126.

JONES, K.K., C.A. SIMENSTAD, D.L. HIGLEY & D.L. BOTTOM, 1990. Community structure, distribution, and standing stock of benthos, epibenthos, and plankton in the Columbia River estuary. ____ Progress in Oceanography 25, 211-242 (Not seen).

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JORDE, D.G. & R.B. OWEN, 1990. Food of Black Ducks, *Anas rubripes*, wintering in marine habitats of Maine. ____ Canadian Field Naturalist 104, 300-302 (*Gammarus oceanicus* important food).

JORDE, D.G. & R.B. OWEN, 1990. Changes in caloric content of the amphipod *Gammarus oceanicus* along the coast of Maine. ____ Canadian Field Naturalist 104, 303-304.

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JUST, J., 1990. Vicmusia duplocoxa gen. et sp. nov., (Crustacea; Amphipoda: Gammaridea) of the new family Vicmusiidae from Australias upper bathyal waters. _____ Invertebrate Taxonomy 3, 925-940 (The new family Vicmusiidae is left as 'Gammaridea, incertae sedis' because of its unique apomorphisms. Vicmusia diplocoxa n. gen. n. sp. was collected from 400 m in Bass Strait, Australia).

JUST, J., 1990. *Coboldus laetifucatus*, new species (Crustacea, Amphipoda, Iphimediidae) from Barbados, West Indies). _____ Steenstrupia 16, 85-91.

KANE, Th.C. & D.C. CULVER, 1991. The evolution of troglobites: *Gammarus minus* (Amphipoda: Gammaridae) as a case study. ____ Mémoires de Biospéologie 18, 3-14 (Not seen).

KARAMAN, G.S., 1989. *Hadzia fragilis stocki*, n. ssp. from Italy (Amphipoda, Gammaridea, Hadziidae). _____ Fragmenta balcanica 14, 69-80 (N.E. Italy, With a key to all *Hadzia* in Italy and Yugoslavia).

KARAMAN, G. S., 1989. One freshwater *Gammarus* species (Gammaridea, fam. Gammaridae) from China. (Contribution to the knowledge of the Amphipoda 189).

Poljoprivreda i Sumarstvo 35, 19-36 (Redescription of *Gammarus nekkensis* Uchida.)

KARAMAN, G.S., 1989. Bogidiella cypria, new species of the family Bogidiellidae from Cyprus Island in the Mediterranean Sea. (Contribution to the knowledge of the Amphipoda 190). _____ Montenegrin Academy of Science and Arts, Glasnik Section Natural Sciences 7, 7-23 (An aberrant Bogidiella).

KARAMAN, G.S., 1989. New species of the family Gammaridae from Ohrid Lake bassin (sic!) Gammarus sketi, n.sp. with emphasis on the subterranean members of genus Gammarus Fabr. (Contribution to the knowledge of the Amphipoda 191). _____ Montenegrin Academy of Science and Arts, Glasnik Section Natural Sciences 7, 53-71 (G. sketi n. sp. from the Montenegro shore of L. Ohrid.)

KARAMAN, G.S., 1990. One new species of the family Bogidiellidae from Creta Island, Greece, *Bogidiella (Medigidiella) aquatica* n.sp. Contribution to the knowledge of the Amphipoda 192. _____ Bulletin du Museum d'Histoire Naturelle de Belgrade B 45, 27-39.

KARAMAN, G.S., 1990. Bogidiella stocki, a new species from the Sinai peninsula (Amphipoda, Bogidiellidae) (Contribution to the knowledge of the Amphipoda 193). _____ Beaufortia 41, 141-149.

KARAMAN, G.S., 1989. On two subterranean gammaridean species from Italy, *Niphargus messanai*, n. sp. and *Ilvanella inexpectata* V.T. 1972. Contribution to the knowledge of the Amphipoda 194. _____ Biosistematika 15, 55-70. (*N. messanai* n. sp. from near Firenze, Toscany, Italy; *Ilvanella inexpectata* from same general area).

KARAMAN, G.S., 1989. The redescription of *Niphargus carniolious* (sic! recte: *carniolicus*) Sket 1960 (fam. Niphargidae) with remarks to its new taxonomic position (Contribution to the knowledge of the Amphipoda 195).

Poljoprivreda i Sumarstvo 35, 13-28. (*Niphargus tauri carniolicus* Sket is redescribed and upgraded to specific rank.)

KARAMAN, G.S., 1991. A new cavernicolous species of the genus *Niphargus* Schiødte (Gammaridea, Niphargidae) from Yugoslavia, *N. aulicus* n. sp., with notes on *N. buturovici* S. Kar. 1958. Contribution to the knowledge of the Amphipoda 196. _____ Bulletin du Museum d'Histoire Naturelle de Belgrade B 46, 103-119 (*N. aulicus* n.sp. from N. Dalmatia, Kroatia; *N. buturovici* from the same general area is redescribed.)

KARAMAN, G.S., 1989. New data on genus *Pontoniphargus* Dancau, 1970 (fam. Niphargidae) from Romania (Contribution to the knowledge of the Amphipoda 199). ____ Glasnik Republick og Zavoda zo Zastity Prirode- Prirodnjackog Muzeja Titograd 22, 79-84 (The type and only species *P. racovitzai* is redescribed. The genus remains a valid one).

KARAMAN, G.S., 1989. Taxonomic investigations on *Niphargus bajuvaricus* Schell. 1932 and its subspecies (Contribution to the knowledge of the Amphipoda 200-Hurrah! WV) ____ Glasnik Republick og Zavoda zo Zastity Prirode- Prirodnjackog Muzeja Titograd 22, 95-111 (The nominate ssp. is redescribed and for the first time recorded from Yugoslavia).

KARAMAN, G.S. & S. RUFFO, 1989. (Two new taxa of *Niphargus* Schiödte from the Italian Alps (Amphipoda, Niphargidae). _____ Studi Trentini di Scienzia Naturale Acta, Biologia 65 (1988), 123-136 (In Italian, not seen. *N. galvagni similis* n.ssp. and *N. strouhali alpinus* n. ssp.)

KARAMAN, G.S. & S. RUFFO, 1989. Tyrrhenogammarus sardous, new genus and species with a description of several new taxa of the genus Pseudoniphargus Chevreux, 1901 from Sicily (Amphipoda, Gammaridea).

Animalia 16, 161-192 (T. sardous n. gen. n. sp. from Sardinia, Echinogammarus catacumbae is also transferred to this new genus in the Echinogammarus- complex. Also described are Pseudoniphargus sodalis n. sp. from Trapani, Sicilia, P. inconditus n. sp. from Messina, Sicilia, and P. africanus italicus n. ssp. from Palermo, Sicilia)

KARAMAN, G.S. & B. SKET,1990. Bogidiella sinica sp.n. (Crustacea: Amphipoda) from southern China.

Biologiya Vestnik, Ljubljana 38, 35-48 (B. sinica from cave in Guengxi, Zhuang A.R., S. China).

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Invertebrate Reproduction and Development 16, 177-182 (Not seen).

KELLY, J.R., S.N. LEVINE, L.A. BUTTEL, K.A. CARR, D.T. RUDNICK & R.D. MORTON, 1990. The

effects of tributyltin within a *Thalassia* seagrass ecosystem. ____ Estuaries 13, 301-310 (i.a. *Cymadusa compta*).

KELLY, J.R., D.T. RUDNICK, R.D. MORTON, L.A. BUTTEL, S.N. LEVINE & K.A. CARR, 1990. 1990. Tributyltin and invertebrates of a seagrass ecosystem: exposure and response of different species. ____ Marine Environmental Research 29, 245-276.

KEVREKIDIS, T., A.K. KOKKINAKIS & A. KOUKOURAS, 1990. Some aspects of the biology and ecology of *Knipowitschia caucasica* (Teleostei: Gobiidae) in the Evros delta, North Aegean Sea. _____ Helgoländer Meeresuntersuchungen 44, 173-188 (Benthic Amph. important prey).

KEVREKIDIS, T. & A. KOUKOURAS, 1989. Seasonal variation of abundance of *Gammarus aequicauda* (Crustacea Amphipoda) in the Evros Delta (N.E. Greece).

_____ Israel Journal of Zoology 36, 113-123.

KIM, Ch. B., 1991. A systematic study of marine gammaridean Amphipoda from Korea. —— Ph. D. Thesis, Seoul natn. Univ., Seoul, I-III, 1-44, 85 figs. (Not seen. 79 spp, of which 14 are n. spp, formally described elsewhere.)

KIM, C.B. & W.KIM, 1989. A new species of the genus *Ceradocus* (Crustacea, Amphipoda, Melitidae) from Korea.

____ Korean Journal of Systematic Zoology 5, 173- 181
(C. (Denticeradocus) koreanus n.sp. from Pusan, S. Korea).

KIM, C.B. & W. KIM, 1990. A new species of the genus *Liljeborgia* (Crustacea, Amphipoda, Liljeborgiidae) from Korea. ____ Korean Journal of Zoology 33, 396-401 (Not seen. *L. hwanghaensis* n.sp. from Yellow Sea.)

KIM, C.B. & W. KIM, 1991. *Urothoe convexa*, a new gammarid species from Korea (Amphipoda: Urothoidae)

____ Korean Journal of Zoology 34. (*U. convexa* n. sp. from Channam prov., S. Korea)

KIM, W. & C.B. KIM, 1991. The marine amphipod crustaceans of Ulreung Island, Korea: Part 1. ____ Korean Journal of Zoology 34, 232-252 (Ulreung Isl. is situated E. of central S. Korea, at c. 37°30'N, 130°50' E. This first part deals with Sunamphitoe sineplumosa n.sp., Gammaropsis japonicus, Podocerus ulreungensis n. sp., P. hoonsooi n.sp., Ericthonius pugnax and Ventojassa dentipalma n. sp.)

KIM, W. & C.B. KIM, 1991. The marine amphipod crustaceans of Ulreung Island, Korea: part II.

Korean Journal of Systematic Zoology 7, 13-38 (Deals with Paranamixis denticulus n. sp., Colomastix prionotos n. sp., Ceinina japonica, Eusiroides monoculoides japonicus, Allorchestes angusta, Hyale punctata, H. rubra and H. bisaeta n. sp., all from Ulreung Island.)

KIM, W. & C.B. KIM, 1991. The marine amphipod crustaceans of Ulreung Island, Korea: part 3. _____ Korean Journal of Zoology 34, 323-337 (Deals with Leucothoe nagatai, L. spinicarpa, Elasmopus koreanus

- n. sp., Maera brevispina n. sp. Parapleustes derzhavini and Stenothoe valida, all from Ulreung Island.)
- KLAGES, M. & J. GUTT, 1990. Comparative studies on the feeding behaviour of high Antarctic amphipods (Crustacea) in laboratory. ____ Polar Biology 11, 73-79 (Epimeria robusta, Gnathiphimedia mandibularis and Paraceradocus gibber).
- KOCH, H., 1990. Aspects of the population biology of *Traskorchestia traskiana* (Stimpson, 1857) (Amphipoda, Talitridae) in the Pacific Northwest, USA.

 Crustaceana 59, 35-52.
- KOCH, K.D., 1989. Ernährungsökologische Untersuchungen an *Gammarus pulex* (L.) und *Gammarus fossarum* Koch, 1835 (Crustacea, Amphipoda) in einem Wiesenbach und einem Waldbach. ____ Ph.D. Thesis, Univ. Giessen, BRD, 194 pp.
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- KÖHN, J., M. JASCHHOF & M. v. WEBER, 1991. Das Salzhaff. Notwendigkeit und Möglichkeit der Schaffung eines Meeresschutzgebietes. ____ Meer und Museum 7, 8-21.
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- KÖHN, J. & A. WATERSTRAAT, 1990. Recent distribution of glacial relict Malacostraca in the lakes of Mecklenburg. Annales Zoologici Fennici 27, 237-240 (Pallasea and Pontoporeia affinis)
- KONOPACKA, A., 1990. Life history of *Gammarus varsoviensis* Jazdzewski, 1975 from Kampinoski National Park, (Central Poland). Zoologia Poloniae 35 (1988), 165- 177.
- KORENTZ, D., F.C. McEUEN, M.C. LAND & W.C. DUNLAP, 1991. Survey of mycosporine-like amino acid compounds in Antarctic marine organisms, potential protection from ultraviolet exposure. ____ Marine Biology 108, 157-166 (i.a. 7 amphipod spp.)
- KORTELAINEN, I., 1990. Gammarus lacustris herbivore or predator? _____ Reports from the Kevo Subarctic Research Station 21, 31-34 (Not an exclusive herbivore).
- KOVAL'CHUK, N.E., 1990. (The microzoobenthos and benthiczooplankton of the Dniester (Ukrainian SSR, USSR) water preserve during its formation.) _____ Gidrobiologichesky Zhurnal 26, 22-27 (In Russian, not seen).
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- of unpublished data from Birkett samples in April/May 1952-54.) _____ Berichte biologische Anstalt Helgoland 8, 1-137.
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- KULKINA, L.V., 1990. (Progenetic cestode *Cyathocephalus* in *Gammarus hirsutus* from waters of western Tien-Shan.) _____ Parazitologiya (Leningrad) 24, 232-235 (In Russian, not seen).
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- LANCROFT, Th. M., Th. L. HOPKINS, J.J. TORRES & J. DONNELLY, 1991. Oceanic micronektonic/macrozooplanktonic community structure and feeding in ice covered Antarctic waters during the winter (AMERIEZ 1988). ____ Polar Biology 11. 157-167 (i.c. Cyllopus, Cyphocaris, Parandania, Themisto and Metalanceola).
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- LAYTON, R.J. & J.R. VOSHELL, 1991. Colonization of new experimental ponds by benthic macroinvertebrates.

 Environmental Entomology 20, 110-117 (Not seen).
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- LEONARDSSON, K., 1991. Effects of cannibalism and alternative prey on population dynamics of *Saduria entomon* (Isopoda. ____ Ecology 72, 1273-1285 (i.a. *Pontoporeia affinis*)
- LEVINGS, C.D., K. CONLIN & B. RAYMOND, 1991. Intertidal habitats used by juvenile Chinook salmon (*Oncorhynchus tshawytscha*) rearing in the North Arm of the Fraser river estuary.

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- LINDEMAN, D., 1990. New terrestrial amphipods (Crustacea: Amphipoda: Talitridae) from Mexico and Central America. ____ Canadian Journal of Zoology 68, 2323-2337 (Deals with Caribotroides (C.) tuxtlensis n.sp. (Vera Cruz. Mexico), C. (C.) newtoni n.sp. (Oaxaca, Mex.), C. (Mexitroides n.subgen.) pecki n.sp. (Oaxaca, Mex.), C. (M.) chiapensis n.sp (Chiapas, Mex.) and Cerrorchestia hyloraina n. gen. n. sp. (Monteverde, Costa Rica). A key to forest leaflitter landhoppers of Mexico and C. America is also provided.)
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- LINDSTRÖM,M. & W. FORTELIUS, 1990. Some factors affecting the horizontal migration of *Pontoporeia affinis* (Crustacea, Amphipoda) in laboratory conditions.

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- LOPEZ, G. & R. ELMGREN, 1990. Feeding depths and organic absorption by *Pontoporeia femorata* and *Pontoporeia affinis* _____ Annales Zoologici Fennici 27, 305 (Abstract only).
- LORENTI, M. & M.B. SCIPIONE, 1990. Relationships between trophic structure and diel migrations of isopods and amphipods in a *Posidonia oceanica* bed of the island of Ischia (Gulf of Naples, Italy). _____ Rapport du Commission International de la Mer Méditerranée 32, 17-18.
- LOWRY, J.K. & H.E. STODDART, 1990. The Wandinidae, a new Indo-Pacific family of Lysianassid Amphipoda (Crustacea). ____ Records of the Australian Museum 42 (1988), 159-171. (This new family in the Lysianassoidea is based on the genera *Wandin* and *Pseudocyphocaris*. *Wandin griffini* n.gen. n.sp. (Great Barrier Reef), *Pseudocyphocaris gosema* n.sp. (Madang, Papua N. Guinea) and *P. lobata* n. sp. (also Madang) are described and illustrated. The wandinids are probably associates of tunicates.)
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 _____ Journal of Natural History 24, 1197-1225 (Deals with Iphimedia? orchestimana, Ampelisca tulearensis, Ampithoe kava, A. ramondi, Cymadusa filosa, Paranamixis sp., Bemlos podoceroides (transferred from Lembos), Globosolembos indicus, Lemboides pterischius n.sp. (Aqaba, Jordan), L. angusticarpa (transf. from Xenocheira), Colomastix plumosa, C. laminosa n.sp. (Aqaba) and C. lunalilo.)
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____ Limnology and Oceanography 35, 710-724 (i.a. Leptocheirus plumulosus)

MASON, W.T., 1991. A survey of benthic invertebrates in the Suwannee River, Florida. _____ Environmental Monitoring and Assessment 16, 163-188.

MATEUS, A. & E. MATEUS, 1990. Etude d'une collection d'amphipodes, specialement du sud-ouest asiatique, du Museum d'Historie Naturelle de Vienne (Autriche). _____ Annales des naturhistorischer Museum, Wien 91 B, 273-33 (Descriptions of Gammarus pageti n. sp. (E. Turkey), G. pretzmanni n.sp. (Iran), G. odettae n.sp. (C. Turkey), G. miae n.sp. (Iran), G. plumipes n. sp. (Iran), G. dorsosetosus n.sp. (SE Turkey), G. inopinatus n.sp. (near Istanbul, Turkey, brackish), Dikerogammarus gruberi n.sp. (SE Turkey), Synurella lepida n.sp. (Turkey), and Hyalella squamosa n.sp. (Guadeloupe, W. Indies).

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MENENDEZ, M. & F.A. COMIN, 1990. Consumption of macrophytes by invertebrates in Tancada lagoon (NE Spain). ____ Scientia Marina 54, 139-144 (i.a. *Gammarus aequicauda*)

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METTAM, C., 1989. The life cycle of *Bathyporeia* pilosa Lindström (Amphipoda) in a stressful, low salinity environment. _____ Scientia Marina 53, 543-550.

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STEARNS, D.E. & M.R. DARDEAU, 1990. Nocturnal and tidal vertical migrations of 'benthic' crustaceans in an estuarine system with diurnal tides. _____ Northeast Gulf Science 11, 93-104 (An Alabama study, featuring i.a. Gammarus tigrinus, Corophium lacustre and Grandidierella bonnieroides).

STEELE, D.H., 1990. Comparison of oostegite shapes in some gammaridean species (Crustacea: Amphipoda).

_____ Bijdragen tot de Dierkunde 60, 277-282.

STEELE, D.H., 1991. Is the oostegite structure of amphipods determined by their phylogeny or is it an adaptation to their environment? ____ Hydrobiologia 223, 27-34 (Mainly the latter!)

STEELE, D.H., 1991. The genus Anonyx (Crustacea, Amphipoda) in the North Pacific and Arctic oceans: the Anonyx bispinosus group. ____ Canadian Journal of Zoology 69, 1600-1611 (Deals with A. bispinosus, A. grebnitzkii n.sp. (Bering Isl.), A. eous, A. pseudeous n.sp. (Cape Lisburne, Alaska), A. eousides n.sp. (Okhotsk Sea), A. pareous n.sp. (Okhotsk Sea)

STEELE, D.H. & A. WHITTICK, 1991. Seasonal variation in *Pilayella littoralis* (Phaeophyceae) and its consequences as a food source for the amphipod *Gammarus lawrencianus*, in the intertidal of Newfoundland. _____ Journal of the Marine Biological Association UK 71, 883-889.

STEELE, V. J., 1991. The distribution and frequency of the type II microtrichs in some gammaroidean amphipods. _____ Hydrobiologia 223, 35-42.

STEPHENSON, M. & G.L. MACKIE, 1989. A laboratory study of the effects of waterborne cadmium, calcium, and carbonate concentrations on cadmium concentrations in *Hyalella azteca* (Crustacea: Amphipoda).

Aquatic Toxicology 15, 53-62 (Not seen)

STOCK, J.H., 1989. Comparaison des stygofaunes des iles calcaires et volcaniques de l'Atlantique tropical.

Mémoires de Biospéologie 16, 15-16.

STOCK, J.H., 1989. Landhoppers (Amphipoda, Talitridae) of the genus *Orchestia* of the Canary Islands.

Bulletin du Museum National d'Histoire Naturelle de Paris (4) 11, 659-668 (Deals with *O. canariensis* (Gran Canaria), *O. gomeri* n.sp. (La Gomera) and *O. guancha*.)

STOCK, J.H., 1990. A new forest-hopper (Amphipoda, Talitridae) from La Palma, Canary Islands.

Vieraea 18, 91-98 (Palmorchestia epigaea n.sp.)

STOCK, J.H. & T.M. ILIFFE, 1990. A new Australian crangonyctid amphipod with a habit convergent to the Old World genus *Niphargus*. _____ Stygologia 5, 137-142 (*Uronyctus longicaudus* n.gen. n. sp. from the Mt. Gambier area, S. Australia.)

STOCK, J.H. & T.M. ILIFFE, 1991. Two new species of *Liagoceradocus* (hypogean Amphipoda) from southwestern Pacific Islands, with key to the world species.

_____ Invertebrate Taxonomy 5, 807-825 (*L. lobiferus* n.sp. from Solomon Isl. (also W. Samoa), and *L. unciferus* n.sp. from Fiji. A key to all spp. is provided).

STOCK, J.H. & Y.W. JO, 1990. The Japanese amphipod genus *Eoniphargus* rediscovered in a South Korean cave. ____ Proceedings of the Biological Society of Washington 103, 624-632 (*E. glandulatus* n.sp. *Eoniphargus* probably does not belong to the Crangonyctoidea).

STOCK, J.H. & E. SANCHEZ, 1990. First record of Crustacea Malacostraca from fresh waters in the Canary Islands. ____ Hydrobiologia 206, 53-59 (Rhipidogammarus rheophilus n. sp. from NW Tenerife.)

STOCK, J.H. & R. VONK, 1990. Stygofauna of the Canary Islands, 23. A freshwater amphipod from La Gomera, *Melita dulcicola* n.sp. ____ Annales de Limnologie 26, 29-37.

STOCK, J.H. 6 R. VONK, 1991. Une espèce nouvelle de *Dulzura*, genre d'Amphipodes hadzioides connu jusqu'ici seulement de l'Indo-Pacifique, decouverte aux iles du Cap-Vert (ocean Atlantique). ____ Cahiers de Biologie marine 32, 477-486 (*Dulzura lobata* n.sp., Cape Verde Isl., with a key to all *Dulzura* species).

STONES, A.W. & C. ACEVEDO, 1990. The macroinfaunal community of a tropical estuarine lagoon.

____ Estuaries 13, 174-181.

STRANN, K-B. & R.W. SUMMERS, 1990. Diet and diurnal activity of Purple Sandpipers *Calidris maritima* wintering in northern Norway. ____ Fauna norvegica Ser. C., Cinclus 13, 75-78 (Amph. important food.)

SUGISAKI, H., M. TERAZAKI, E. WADA & T. NEMOTO, 1991. Feeding habits of a pelagic amphipod, *Themisto japonica*. ____ Marine Biology 109, 241-244 (Changes from herbivore to carnivore during growth.)

SUNDARAM, K.M.S., S.B. HOLMES, D.P. KREUTZWEISER, A. SUNDARAM & P.D. KINGSBURY, 1991. Environmental persistence and impact of diflubenzuron in a forest aquatic environment following aerial application. _____ Archives of Environmental Contamination and Toxicology 20, 313-321 (Not seen. Amph.+)

SUNDELIN, B. & R. ELMGREN, 1991. Meiofauna of an experimental soft-bottom ecosystem - effects of macrofauna and cadmium exposure. ____ Marine Ecology - Progress Series 70, 245- 255 ('Macrofauna' of title is *Pontoporeia affinis*)

SWARTZ, R.C., D.W. SCHULTS, T.H. DEWITT, G.R. DITSWORTH & J.D.LAMBERSON, 1990. Toxicity of fluoranthene in sediment to marine amphipods: A test of the equilibrium partitioning approach to sediment quality criteria. ____ Environmental Toxicology and Chemistry 9, 1071-1080 (Tests with Rhepoxynius abronius and Corophium spinicorne.)

SWARTZ, R.C., D.W. SCHULTS, J.D. LAMBERSON, D.J. OZRETICH & J.K.STULL, 1991. Vertical profiles of toxicity, organic carbon, and chemical contaminants in sediment cores from the Palos Verdes Shelf and the Santa Monica Bay, California. ____ Marine Environmental Research 31, 215-225 (Rhepoxynius abronius)

TAKEUCHI, I., 1986. *Caprella kominatoensis* n.sp. (Amphipoda, Caprellidae) from Amatsu- Kominato, Chiba, Japan. _____ Bulletin of the National Science Museum 12, 67-73.

TAKEUCHI, I., 1990. (A preliminary note on a hermaphrodite abnormality of *Caprella danilevskii* Czerniavski (Crustacea: Amphipoda). ____ Annual Report of the Marine Ecosystems Research Centre, Chiba University 10, 29-30 (In Japanese.)

TAKEUCHI, I & HIRANO, 1988. (A preliminary report on the life-history of *Caprella danilevskii* (Crustacea, Amphipoda) reared in the laboratory.) _____ Bulletin of the Japanese Association of Benthologists 32, 37-41 (In Japanese.)

TAKEUCHI, I. & R. HIRANO, 1991. Growth and reproduction of *Caprella danilevskii* (Crustacea: Amphipoda) reared in the laboratory. ____ Marine Biology 110, 391-397.

TAKEUCHI, I. & S. ISHIMARU, 1991. Redescription of (Caprogammarus gurjanovae Kudrjaschov & Vassilenko, 1966 (Crustacea: Amphipoda) from Hokkaido, Japan, with notes on the taxonomic status of Caprogammarus. ____ Hydrobiologia 223, 283-291 (Caprogammarus is considered to belong to the Caprellidea).

TAKEUCHI, I., R. KUWABARA, R. HIRANO & H. YAMAKAWA, 1987. Species compositions of the Caprellidea (Crustacea: Amphipoda) of the Sargassum zone on the Pacific coast of Japan. _____ Bulletin of

Marine Science 41, 253-267.

TAKEUCHI, I., M. TAKEDA & K. TAKESHITA, 1989. Redescription of the bathyal caprellid, *Caprella ungulina* Mayer 1903 (Crustacea, Amphipoda) from the North Pacific. _____ Bulletion of the National Science Museum, Ser. A (Zoology) 15, 19-28.

TAKEUCHI, I., H. YAMAKAWA & M. FUJIWARA, 1990. Density fluctuation of caprellid amphipods (Crustacea) inhabiting the red alga *Gelidium amansis* (Lamouroux) Lamouroux, with emphasis on *Caprella okadai* Arimoto____ Mer (Tokyo) 28, 30-36

TARAMELLI, E. L. FASSETTA & G. GENTILE, 1990. (Observation on crustacean amphipods of the Central Adriatic (Grottomare)) _____ Rivista d'Idrobiologia 27 (1988), 449-472 (In Italian, not seen)

TARAMELLI, E. & L. VENANZANGELI, 1989-90. Benthic population in Torvaldaliga (Civitavecchia, Italia). Crustacea Amphidopa (sic). ____ Oebalia N.S 16, 49-67.

TARARAM, A.S., H. de S.L. MESQUITA, Y. WAKABARA & C.A. PERES, 1990. Food ingestion and assimilation by *Hyale media* (Dana 1853) (Crustacea-Amphipoda). _____ Boletim de Instituto Oceanographico di Sao Paulo 38, 11-21.

TAYLOR, E.J., S.J. MAUND & D. PASCOE, 1991. Toxicity of four common pollutants to the freshwater macroinvertebrates *Chironomus riparius* Meigen (Insecta: Diptera) and *Gammarus pulex* (L.) (Crustacea: Amphipoda). ____ Archives of Environmental Contamination and Toxicology 21, 371-376 (DCA, atrazine, copper and lindane).

TENTORI, E. & A.P.M. LOCKWOOD, 1990. Haemolymph magnesium levels in some oceanic Crustacea. ____ Comparative Biochemistry and Physiology 95 A, 545-548 (Not seen. Amph. +.)

THOMAS, J.D. & J.L. BARNARD, 1990. Gitana dominica, a new species from the Caribbean Sea (Amphipoda: Amphilochidae). ____ Proceedings of the Biological Society of Washington 103, 617-623 (from the island of Dominica).

THOMAS, J.D. & J.L. BARNARD, 1990. *Jerbarnia stocki*, a new species from the Barrier Reef (Crustacea, Amphipoda). ____ Beaufortia 41, 169-176 (With a survey of the maerellids: *Maerella*, *Coxomaerella* and *Jerbarnia*.)

THOMAS, J.D. & J.L. BARNARD, 1991. *Photis tropherus*, a new elephantine species from the Caribbean Sea (Crustacea: Amphipoda) ____ Proceedings of the Biological Society of Washington 104, 96-100 (Dominica, W. Indies).

THOMAS, J.D. & J.L. BARNARD, 1991. A review of the genus *Iphimedia* (Crustacea: Amphipoda) with descriptions of three new species from Australia, Papua

New Guinea and Florida. ____ Invertebrate Taxonomy 5, 469-485 (With a discussion of the genus and its species. The genus *Cypsiphimedia* is synomymized with *Iphimedia*, and *I. joubini* transferred to *Stegopanoploea*. The authors doubt Karaman's transfer of *I. hedgpethi* to *Coboldus*. New taxa are *I. warraina* n.sp. (S. Australia), *I. zora* n.sp. (Florida Keys, USA), and *I. xesta* n.sp. (Madang, PNG).)

THOMAS, J.D. & J.L. BARNARD, 1991. Two new species of *Netamelita* from the Caribbean Sea (Crustacea: Amphipoda: Gammaridea). _____ Proceedings of the Biological Society of Washington 104, 583-592 (*N. brocha* n.sp. (Florida Keys) and *N. tabaci* n.sp. (Belize). A key to all *Netamelita* spp. is provided.)

THRUSH, S.F., R.D. PRIDMORE, J.E. HEWITT & V.J. CUMMING, 1991. Impact of ray feeding disturbances on sandflat macrobenthos: do communities dominated by polychaetes or shellfish respond differently? _____ Marine Ecology - Progress Series 69, 245-252 (i.a. *Paracalliope novizealandiae*).

THURSTON, M.H., 1990. Abyssal necrophagous amphipods (Crustacea: Amphipoda) in the northeast and tropical Atlantic Ocean. Progress in Oceanography 24, 257-274.

TRAJANO, E., 1989. (Spontaneous and feeding behavior and diet of the blind catfish. *Pimelodella kronei*, and its putative ancestor, *Pimelodella transitoria*, from southeastern Brazil (Siluriformes Pimelodidae).) _____ Revista Brasileira di Biologia 49, 757-770. (In Portuguese, not seen. Predators of amphipods.)

TSUCHIYA, M. & D. BELLAN-SANTINI, 1989. Vertical distribution of shallow rocky shore organisms and community structure of mussel beds (*Mytilus galloprovincialis*) along the coast of Marseille, France.

Mesogée, Bulletin du Museum d'Histoire Naturelle de Marseille 49, 91-110 (Not seen).

TUFOIL, A., P.S. MEADOWS & P. McLOUGHLIN, 1989. Meso- and microscale heterogeneity in benthic community structure and the sedimentary environment on anintertidal muddy-sand beach. ____ Scientia Marina 53, 319- 327° (A Scottish study, with i.a. Bathyporeia guillamsoniana and Corophium volutator.)

TZVETKOVA, N.L., 1990. (An addition to the fauna of amphipods (Amphipoda, Talitroidea, Hyalidae) from the shallow waters of the East Kamchatka). ____ Trudy Zoologichesky Institut Leningrad, Akademya Nauk SSSR 218, 40-53 (In Russian. Deals with Allorchestes bellabella, A. carinatus and Parallorchestes asiaticus n.sp., all from Kronotsky Bay, E. Kamchatka.)

TZVETKOVA, N.L. & A.A. GOLIKOV, 1990. (Fauna, ecology and role in ecosystems of amphipods (Amphipoda, Gammaridea) at the New Sibirian shoals and adjacent waters in the Laptev Sea). _____ Issledevanye Fauna Morej SSSR 37 (45), 258-343 (In Russian. With descriptions and illustrations of Ampelisca latipes, A.? macrocephala, Byblis arcticus, Haploops cf. laevis, H.

sibirica, Ericthonius hunteri, Gammaropsis aff. melanops, Protomedeia fasciata, Dyopedos bispinus, D. monacanthus, Apherusa retovskii, Pleusymtes margulisae n.sp., Metopa aff. boecki? ssp. nov., M. leptocarpa, M. robusta, M. shoemakeri n. sp., M. gurjanovae n.sp., Metopella buynitzkii, M. bousfieldi n.sp., Stenula nordmanni, S. alexanderi n. sp., Monoculodes packardi, M. vibei, Harpinia panini Gurj. (was nom. nudum) and H. salebrosa).

UDALOVA, G.P., A.Ya. KARAS & M.I. ZHUKOVSKAYA, 1990. (Asymmetry of the movement direction in *Gammarus oceanicus* in the open field test).

Zhurnal Vyssh. Nervn Deyat Im.I. P. Pavlova 40, 93-101 (In Russian, not seen).

UGOLINI, A., 1989. Orientation in the water and antipredatory behaviour in sandhoppers. _____ Marine Behaviour and Physiology 14, 223-230.

UGOLINI, A., 1989. Predation and orientation in *Talitrus saltator*. Proceedings of the 21st International Ethology Conference, 9-17 Aug. 1989. Utrecht, abstract only.

UGOLINI, A., 1990. Predation and orientation in littoral amphipods. ____ Ethology, Ecology and Evolution 2, 331.

UGOLINI, A., S. FELICIANI & T. MACCHI, 1991. Orientation in the water and learning in *Talitrus saltator* Montagu. _____ Journal of Experimental Marine Biology and Ecology 151, 113-119.

UGOLINI, A. & L. PARDI, 1991. The sun's role in magnetic orientation of equatorial sandhoppers. ______ Society of Experimental Biology, Birmingham Meeting, Abstract only.

UITTO, A. & J. SARVALA, 1990. Perspectives on the ecological factors regulating *Pontoporeia* populations in the northern Baltic Sea. ____ Annales Zoologici Fennici 27, 297- 301.

UITTO, A. & J. SARVALA, 1991. Seasonal growth of the benthic amphipods *Pontoporeia affinis* and *P. femorata* in a Baltic archipelago in relation to environmental factors. ____ Marine Biology 111, 237-246.

VADER, W. & N.K. LETH, 1990. Notes on Norwegian marine Amphipoda 11. *Ceradocus torelli* (Goes, 1866), a new amphipod for Norway. ____ Fauna Norvegica, Ser. A 11, 59.

VÄINÖLÄ, R., 1990. Molecular time scales for evolution in *Mysis* and *Pontoporeia*. ____ Annales Zoologici Fennici 27, 211-214.

VÄINÖLÄ, R. & H. ROCKAS, 1990. New distributional data on 'glacial relict crustaceans' ____ Annales Zoologici Fennici 27, 215-220.

VAL'TER, E.D., 1991. Caprella septentrionalis Kröyer

(Amphipoda, Caprellidae), an intermediate host of nematodes of the genus *Contracaecum* Railliet et Henry.

____ Canadian Translations Fisheries and Aquatic Sciences 5534, 7 pp (Not seen. Translated from Russian, Zoologicheskii Zhurnal 47, 127-131.)

VARENKO, N.I., N.I. ZAGUBIZHENKO & Yu. K. GAIDASH, 1991. (Role of zoobenthos in the migration of trace elements in the Zaporozhye water reservoir (Ukrainian SSR, USSR).) ____ Gidrobiologyesky Zhurnol 27, (1), 78-82 (In Russian, not seen; i.a. *Pontogammarus crassus*)

VASSILENKO, S.V., 1991. Ecophysiological characteristics of some common caprellid species in the Possjet Bay (the Japan Sea). ____ Hydrobiologia 223, 181-187.

VERGARA, P.A., A.H. BUSCHMANN & F.A. KUSCHEL, 1990. (Abundance of amphipods on the exposed shore of Pucatrihue, Chile.) _____ Revista de Biologia Marina, Valparaiso 25, 93-107 (In Spanish. On *Hyale*)

VINOGRADOV, G.M., 1990. (Amphipods in the near-bottom layer in the south-western part of the Indian Ocean.) ____ Okeanologiya 30, 121-125 (In Russian. On the boundary between pelagic hyperiids and benthopelagic gammaroids).

VINOGRADOV, G.M., 1990. (Life form ratio of hyperiid amphipods in different parts of the ocean.) _____ Okeanologiya 30, 656-665 (In Russian).

VINOGRADOV, G.M., 1990. (The life-forms of the shallow-water amphipods (Crustacea, Amphipoda) of the Great Salma strait.) _____ Biologiya Nauki (Moskva) 0-8, 77-85 (In Russian).

VINOGRADOV, G.M., 1991. Hyperiid amphipods in the eastern part of the South Pacific gyre. ____ Marine Biology 109, 259- 265 (119 spp, listed on pp 261-262. New species in the genera *Streetsia* and *Hemiscelus* are mentioned, but not here described)

VINOGRADOV, M.E., A.M. KUDIN, A.V. SMOLKO & T.O. ABRAMYAN, 1991. (Structure of migrating aggregations of pelagic organisms.) _____ Doklady Akademiya Nauk SSSR 317, 1226- 1229 (In Russian).

VONK, R., 1990. *Psammogammarus stocki* n. sp. (Crustacea, Amphipoda, Melitidae) from beach interstitia on Tenerife. Stygofauna of the Canary Islands, 21. ______ Bijdragen tot de Dierkunde 60, 271-276.

VONK, R., 1990. Amsterdam Expedition to the West Indies. 66. *Thalassostygius exiguus* n.g., n. sp., a new marine interstitial melitid (Crustacea, Amphipoda) from Curacao and Klein Bonaire (Netherlands Antilles). _____ Stygologia 5, 43-48.

VONK, R., 1991. Two marine interstitial *Metaniphargus* species (Crustacea, Amphipoda) from Hawaii and the Cayman Islands. ____ Stygologia 6, 111-118 (M.

sabulonis n.sp. from Cayman Isl., M. laakona (transferred from Eriopisa) from Oahu, Hawaii.)

VONK, R. & E. SANCHEZ, 1991. A new marine interstitial ingolfiellid (Crustacea, Amphipoda, Ingolfiellidea) from Tenerife and Hierro.

Hydrobiologia 223, 293- 299. (*I. canariensis* n. sp.)

WAKABARA, Y., A.S. TARARAM, M.T. VALERIO-BERARDO, W. DULEBA & F.P. PEREIRA LEITE, 1991. Gammaridean and caprellidean fauna from Brazil.

Hydrobiologia 223, 69-77 (Extremely useful checklist)

WALLER, G.N.H., 1989. Two new species of whale lice (Cyamidae) from the ziphiid whale *Berardius bairdi*.

_____Investigations on Cetacea 22, 292-297 (*Platycyamus flaviscutatus* n. sp. and *Cyamus orubraedon* n. sp.

WARREN, A. & J. PAYNTER, 1991. A revision of *Cothurnia* (Ciliophora: Peritrichida) and its morphological relatives. ____ Bulletin of the British Museum of Natural History, Zoology 57, 17-59.

WEEKS, J.M. & P.G. MOORE, 1991. The effects of synchronous moulting on body copper and zinc concentrations in four species of talitrid amphipods (Crustacea). ____ Journal of Marine Biology Association UK 71, 481-488.

WEEKS, J.M. & P.S. RAINBOW, 1990. A dual-labelling technique to measure the relative assimilation efficiencies of invertebrates, taking up trace metals from food. _____ Functional Ecology 4, 711-717.

WEEKS, J.M. & P.S. RAINBOW, 1991. The uptake and accumulation of zinc and copper from solution by two species of talitrid amphipods (Crustacea). _____ Journal of Marine Biology Association UK 71, 811-826 (Orchestia gammarellus and O. mediterranea.)

WEIGMANN-HAAS, R., 1990. Taxonomie und Verbreitung von *Vibilia antarctica* Stebbing 1888 im antarktischen Teil des Atlantik (Crustacea: Amphipoda: Hyperiidea). _____ Senckenbergiana Biologia 70 (1989), 419-428.

WEIGMANN-HAAS, R., 1991. Zur Taxonomie und Verbreitung der Gattung *Hyperoche* Bovallius 1887 im antarktischen Teil der Atlantik (Crustacea: Amphipoda: Hyperiidea). ____ Senckenbergiana Biologia 71 (1989), 169-179 (Deals with *H. luetkenides* and *H. capucinus*)

WEINBERG, S. & W. v. ZIJL, 1990. A multidisciplinary study of Jan Hendrik Stock (with the description of one new genus and four new species). _____ Bulletin of the Zoological Museum, Amsterdam, special Issue, 1-44 (A courageous effort to unravel the history and personality of Jan Stock, published at the occasion of his retirement as professor of zoology at Amsterdam University. Even I, who have known Jan since he was 20, learned a lot from this insightful paper. Highly recommended).

WESLAWSKI, J.M., S. KWASNIEWSKI & J. WIKTOR, 1991. Winter in a Svalbard fiord ecosystem. _____ Arctic

44, 115-123.

WHITEHURST, I.T., 1989. Factors affecting the *Gammarus* to *Asellus* ratio in unpolluted and polluted waters. _____ Dissertation Abstracts B- Sci. 2 Eng. 50, 351 pp (Not seen).

WHITFIELD, A.K., 1989. The benthic invertebrate community of a southern Cape estuary: Structure and possible food sources. _____ Transactions of the Royal Society of South Africa 47, 159-190 (i.a. Melita zeylanica, Urothoe pulchella and Orchestia. Not seen.)

WILDISH, D.J. & B. FROST, 1991. Volumetric growth in gammaridean Amphipoda. ____ Hydrobiologia 223, 171-176.

WILLIAMS, D.D., 1991. Life history traits of aquatic arthropods in springs. ____ Memoirs of the Entomological Society of Canada 155, 63-88 (Not seen. Amph.?)

WILLIAMS, W.D., A.J. BOULTON & R.G. TAAFFE, 1990. Salinity as a determinant of salt lake fauna: a question of scale. _____ Hydrobiologia 197, 257-266.

WILSON, W.H., 1991. Competition and predation in marine soft- sediment communities. Annual Review of Ecology and Systematics 21, 221-241.

WONES, A.G. & G.L. LARSON, 1991. The benthic macro invertebrate community in a coastal sand dune lake relative to habitat and changing lake levels. _____ Hydrobiologia 213, 167-181 (An Oregon study.

Corophium spinicorne dominant in littoral zones).

YAMATO, S., 1990. Two new species of the genus *Melita* (Crustacea: Amphipoda) from shallow waters of the Seto Inland Sea of Japan. _____ Publications of the Seto Marine Biology Laboratory 34, 149-165 (*M. hoshinoi* n.sp. and *M. quadridentata* n.sp. The author does not recognize the genus *Abludomelita*.)

ZANDER, C.D., 1990. Prey selection of the shallow water fish *Pomatoschistus minutus* (Gobiidae, Teleostei) in the SW Baltic ____ Helgoländer Meeresuntersuchungen 44, 147-157.

ZEIDLER, W., 1990. Pelagic Amphipoda, infraorder Physosomata (Crustacea: Amphipoda: Hyperiidea) from the CSK International Zooplankton Collection (western North Pacific) with the description of four new species of *Scina*. Publications of the Seto Marine Biology Laboratory 34, 167-200 (Describes *Scina curvidactyloides* n. sp., *S. parasetigera* n. sp., *S. hurleyi* n. sp., *S. exospina* n. sp. and *Scina* sp., and provides a key to world *Scina*).

ZHENG, Z.,1990. (Environmental sex determination and sex ratio in Crustacea). _____ Journal of Oceanography of Taiwan Straits 9, 191- 199. (In Chinese, not seen.)

ZMUDZINSKI, L., 1990. Past and present occurrence of Malacostraca glacial relicts in Polish lakes. ____ Annales Zoologici Fennici 27, 227-230 (i.e. *Pallasea* and *Pontoporeia affinis*.)

NEW AMPHIPOD TAXA IN AMPHIPOD NEWSLETTER 19

Wim Vader

As promised, I'll try to bring out an index to each AN from now on.

New families and subfamilies in AN 19

ACANTHONOTOZOMELLIDAE Coleman & Barnard, 1991. Acanthonotozomella (type), Acanthonotozomoides, Acanthonotozomopsis and Amatiguakius

AMATHILLOPSIDAE (revived) Coleman & Barnard, 1991. *Amathillopsis* (type)

DIKWIDAE Coleman & Barnard, 1991. Dikwa (type)

ODIIDAE Coleman & Barnard, 1991. Odius (type), Postodius

VICMUSIIDAE Just, 1990. Vicmusia

WANDINIDAE Lowry & Stoddart, 1990. Wandin (type), Pseudocyphocaris

New genera and subgenera in AN 19

AMATIGUAKIUS Coleman & Barnard, 1991. Acanthonotozomellidae. *A. forsberghii*.

AMERICORCHESTIA Bousfield, 1991. Talitridae. Orchestia longicornis (+3)

APOTECTONIA Barnard & Ingram, 1990. Lysianassoidea A. heterostegos.

BONASSA Barnard & Karaman, 1991. Lysianassoidea Lysianassa bonairensis

CAECONYX Barnard & Karaman, 1991. Lysianassoidea *Hoplonyx caeculus*

CARINOMELITA Bousfield, 1990, Melitidae. C. janstocki

CERRORCHESTIA Lindeman, 1990. Talitridae. C. hyloraina

CONCARNES Barnard & Karaman, 1991. Lysianassoidea. Socarnes concavus

CORNUDILLA Barnard & Karaman, 1991. Oedicerotidae. Westwoodilla cornuta

COXIMEDON Barnard & Karaman, 1991. Lysianassoidea. Normania latimana (+1)

DARTENASSA Barnard & Karaman, 1991. Lysianassoidea. Lysianassa dartevillei

DIATECTONIA Barnard & Ingram, 1990. Lysianassoidea. D. typhodes.

DISSIMINASSA Barnard & Karaman, 1991. Lysianassoidea. Aruga dissimilis

FALCONASSA Barnard & Karaman, 1991. Lysianassoidea. Lysianassa falcata

GRONELLA Barnard & Karaman, 1991. Lysianassoidea. Anonyx groenlandicus

HARDAMETOPA Barnard & Karaman, 1991.Stenothoidae. Metopa nasuta (+1)

LYSIANASSINA Costa, 1867 (revived, Barnard & Karaman 1991) Lysianassoidea. Lysianax longicornis

MACRONASSA Barnard & Karaman, 1991. Lysianassoidea. Aruga macromerus (+1)

MARTENSIA Barnard & Karaman, 1991. Lysianassoidea. Lysianassa martensi

MESOCHTONGIDIELLA subgen. Grosso & Fernandez, 1985. Bogidiellidae (Bogidiella). B. (M.) tucumanensis.

MEXITROIDES subgen. Lindeman, 1990. Talitridae (Caribotroides). C. (M.) pecki (+1)

OTAGIA Barnard & Karaman, 1991. ? Condukiidae Platyischnopus neozelanicus

PARADICAPRELLA Hirayama, 1990. Caprellidea. P. brucei

RADYOPEDOS Andres & Rauschert, 1990. Podoceridae. P. antarcticus

PLUMITHOE Barnard & Karaman, 1991. Ampithoidae. *Amphithoe plumicornis* (+1)

PSEUDODULICHIA Rauschert, 1990. Podoceridae. Dulichia antarctica

RELICTOMOERA Barnard & Karaman, 1991. Eusiroidea. Paramoera relicta (+1) RINGARINGA Barnard & Karaman, 1991. Phoxocephalidae. *Metaphoxus littoralis*

SEPTCARNES Barnard & Karaman, 1991. Lysianassoidea. Socarnes septimus

STERNOMOERA Barnard & Karaman, 1991. Eusiroidea. Paramoera yezoensis (+2)

TECTOVALOPSIS Barnard & Ingram, 1990. Lysianassoidea. T. wegeneri (+4)

THALASSOSTYGIUS Vonk, 1990. Melitidae. Th. exiguus.

TRANSTECTONIA Barnard & Ingram, 1990. Lysianassoidea. T. torrentis

TULUWECKELIA Holsinger, 1990. Hadziidae. T. cernua

URONYCTUS Stock & Iliffe, 1990. Crangonyctidae U. longicaudatus

VENTIELLA Barnard & Ingram 1990. Lysianassoidea. *V. sulfuris*

VICMUSIA Just, 1990. Vicmusiidae. V. duplocoxa

WANDIN Lowry & Stoddart, 1990. Lysianassoidea Wandinidae. W. griffini

New species and subspecies in AN 19

ALEXANDERI (Stenula) Tzvetkova & Golikov, 1990. Laptev Sea, Siberia

ALONSOAE (Jassa) Conlan, 1990. S. Georgia.

ALPINUS subsp. (Niphargus strouhali) Karaman & Ruffo, 1989. Italian Alps.

AMCHITKENSIS (*Podoceropsis*) Conlan, 1983. Aleutian Isl

AMERICANA subsp. (*Cheirimedeia macrocarpa*) Conlan, 1983. British Columbia

ANGUSTIMANA (*Podoceropsis*) Conlan, 1983. Vancouver Isl., Br. Columbia.

ANTARCTICUS (*Paradyopedos*) Andres & Rauschert, 1990. 61°S, 54°W.

AQUATICA (Bogidiella) Karaman, 1990. Kreta.

AROUDANENSIS (*Metacrangonyx*) Messouli, Boutin & Coineau, 1991. Haut Atlas, Morocco.

ASIATICUS (Parallorchestes) Tzvetkova, 1990. E. Kamchatka.

ASSOCIATUS (Pseudoniphargus) Sanchez, 1990. Tenerife, Canary Isl.

ATLANTICA (Bogidiella) Sanchez, 1991. W. Canary Isl.

AULICUS (Niphargus) Karaman, 1991. N. Dalmatia, Kroatia.

BARBARAE (Americorchestia) Bousfield, 1991. Texas.

BARNARDI (Lembos). Ortiz & Nazabal, 1988. Cuba.

BERGAE (*Haplogynglymus*). Pretus & Sabater, 1990. Catalonia, NE Spain.

BISAETA (Hyale). Kim & Kim, 1991. Ulreung Isl., S. Korea.

BOROWSKYAE (Jassa) Conlan, 1990. Br. Columbia.

BOUSFIELDI (Carinobatea) Ortiz, 1991. W. coast Florida.

BOUSFIELDI (*Metopella*) Tzvetkova & Golikov, 1990. Laptev Sea, Sibiria.

BOWMANI (*Phronima*) Shih, 1991. Eastern tropical Pacific.

BRACHYCLADUS (Ampelisca) Roney, 1990. Southern California.

BREVISPINA (*Maera*) Kim & Kim, 1991. Ulreung Isl., S. Korea.

BROCHA (*Netamelita*) Thomas & Barnard, 1991. Florida Keys.

BRUCEI (Paradicaprella) Hirayama, 1990. N. Caledonia.

CAMPI (Carinobatea) Ortiz, 1991. West coast Florida.

CANARIENSIS (*Ingolfiella*) Vonk & Sanchez, 1991. Tenerife, Canary Isl.

CANDELARIAE (*Pseudoniphargus*) Sanchez, 1990. Tenerife, Canary Isl.

CARLTONI (Jassa) Conlan, 1990. California

CERNUA (Tuluweckelia) Holsinger, 1990. Yucatan, Mexico.

CHIAPENSIS (Caribotroides) Lindeman, 1990. Chiapas, Mexico.

CHIONOECETOPHILA (*Podoceropsis*) Conlan, 1983. Oregon, USA.

CONCINNA (Caprella) Mateus & Mateus, 1991. Cap Verde Isl.

CONVEXA (*Urothoe*) Kim & Kim, 1991. Channam, S.Korea.

CURVIDACTYLOIDES (Scina) Zeidler, 1990. Western North Pacific.

CYPRIA (Bogidiella) Karaman, 1989. Cyprus.

DELAMAREI (*Metacrangonyx*) Messouli, Boutin & Coineau, 1991. Oued Dades, Haut Atlas, Morocco.

DENTATA (Gondogeneia) Alonso, 1986. Santa Cruz, Argentina.

DENTICULUS (*Paranamixis*) Kim & Kim, 1991. Ulreung Isl., S. Korea

DENTIPALMA (Ventojassa) Kim & Kim, 1991. Ulreung Isl., S. Korea

DIABOLUS (*Tectovalopsis*) Barnard & Ingram, 1990. 12°48'N, 103°56'W, vent areas.

DOMINICA (Gitana) Thomas & Barnard, 1990. Dominica, Caribbean.

DORSOSETOSUS (Gammarus) Mateus & Mateus, 1990. SE Turkey.

DRACOSPIRITUS (Ingolfiella) Griffiths, 1989. Namibia.

DULCICOLA (*Melita*) Stock & Vonk, 1990. La Gomera, Canary Isl.

DUNBARI (*Phronima*) Shih, 1991. Eastern tropical Pacific.

DUPLOCOXA (Vicmusia) Just, 1990. Bass Strait, Australia.

ELLISI (Gammaropsis) Conlan, 1983. British Columbia.

ENTRICHOMA (*Ensayara*) Gable & Lazo-Wasem, 1990. Bermuda.

EOUSIDES (Anonyx) Steele, 1991. Okhotsk Sea.

EPIGAEA (*Palmorchestia*) Stock, 1990. La Palma, Canary Isl.

EXIGUUS (Thalassostygius) Vonk, 1990. Curacao.

EXOSPINA (Scina) Zeidler, 1990. Western N. Pacific.

FASTIDIOSA (Ampithoe) Mateus & Mateus, 1991. Cap Verde

FENWICKI (Jassa) Conlan, 1990. Snares, N. Zealand.

FLAVISCUTATUS (Platycyamus) Waller, 1989. ?

FORSBERGHII (Amatiguakius) Coleman & Barnard, 1991. Alcutian Isl.

FUSILUS (Tectovalopsis) Barnard & Ingram, 1990. off W. Mexico, vent area.

GLABRA (Caprella) Aoki, 1991. W. Kyushu, Japan.

GLANDULATUS (Eoniphargus) Stock & Jo, 1990. S. Korea.

GLUTONIS (*Hirondellea*) Barnard & Ingram, 1990. 13°N rift, vent area.

GOBABIS (Ingolfiella) Griffiths, 1989. Namibia.

GOMERI (Orchestia) Stock, 1989. La Gomera, Canary Isl.

GOSEMA (*Pseudocyphocaris*) Lowry & Stoddart, 1990. Madang lagoon, Papua NG.

GOULMIMENSIS (*Metacrangonyx*) Messouli, Boutin & Coineau, 1991. Goulmima, Morocco.

GREBNITZKII (Anonyx) Steele, 1991. Bering Island.

GRIFFINI (Wandin) Lowry & Stoddart, 1990. Great Barrier Reef.

GRUBERI (Dikerogammarus) Mateus & Mateus, 1990. SE Turkey.

GRUNERI (Jassa) Conlan, 1990. Tasmania.

GUADALUPENSIS (Floresorchestia) Ciavatti, 1989. Guadeloupe, Caribbean.

GURJANOVAE (*Metopa*) Tzvetkova & Golikov, 1990. Laptev Sea.

GUYOTI (Hirondellea) Barnard & Ingram 1990. Hess Guyot, vent area.

HANAMURAI (*Paramoera*) Hirayama, 1990. Hokkaido, Japan.

HARTMANNAE (*Jassa*) Conlan, 1990. The Snares, N. Zealand.

HEARDI (Americorchestia) Bousfield, 1991. Mississippi, USA.

HETEROSTEGOS (Apotectonia) Barnard & Ingram, 1990. Galapagos Vents.

HONGKONGENSE (Corophium) Hirayama, 1986. Hong Kong.

HOONSOOI (*Podocerus*) Kim & Kim, 1991. Ulreung Isl., S. Korea

HOSHINOI (Melita) Yamato, 1990. Seto Inland Sea, Japan.

HURLEYI (Scina) Zeidler 1990. Western North Pacific.

HWANGHAENSIS (Liljeborgia) Kim & Kim, 1990. Yellow Sea, Korea.

HYLORAINA (Cerrorchestia) Lindeman, 1990. Monteverde, Costa Rica.

INCIDERIS (Gammaropsis) Lyons & Myers, 1991. Gulf of Aqaba, Red Sea.

INCONDITUS (Pseudoniphargus) Karaman & Ruffo, 1989. Sicilia, Italy

INOPINATUS (Gammarus) Mateus & Mateus, 1990. Near Istanbul, Turkey.

ITALICUS subsp. (*Pseudoniphargus africanus*) Karaman & Ruffo, 1989. Sicilia, Italy.

JADRANKA subsp. (Niphargus rejici) Sket & Karaman 1990. Krk, Kroatia.

JANSTOCKI (Carinomelita) Bousfield, 1990. Hawaii.

JAYNEAE (Haustorius) Foster & Lecroy, 1991. Northern Gulf of Mexico.

JUSTI (Jassa) Conlan, 1990. Macquarie Isl., subantarctic.

KAIKAI (*Orchomene*) Bellan-Santini, 1990. 35°N, 142°E, deep water.

KARUKARAE (*Tethorchestia*) Ciavatti, 1989. Guadeloupe, Caribbean.

KERAKAE (Lysianassa) Lyons & Myers, 1991. Gulf of Aqaba, Red Sea.

KINGELEPHA (*Thaumatelsonella*) Rauschert & Andres, 1991. S. Shetland Islands.

KOMINATOENSIS (Caprella) Takeuchi, 1986. Chiba, Japan.

KOREANUS (Ceradocus) Kim & Kim, 1989. Pusan, S.Korea.

KOREANUS (Elasmopus) Kim & Kim, 1991. Ulreung Isl., S. Korea.

LACERTOSA (Maera) Mateus & Mateus, 1991. Cap Verde.

LAETIFUCATUS (Coboldus) Just, 1990. Barbados, W. Indies.

LEFKODEMONAKI (Niphargobates) Sket, 1990. Kreta, Greece.

LEPIDA (Synurella) Mateus & Mateus, 1991. Turkey.

LOBATA (Dulzura) Stock & Vonk, 1991. Cap Verde.

LOBATA (*Pseudocyphocaris*) Lowry & Stoddart 1990. Madang lagoon, Papua NG

LOBIFERUS (*Liagoceradocus*) Stock & Iliffe, 1991. Solomon Islands.

LONGICAUDUS (*Uronyctus*) Stock & Iliffe, 1990. Mt. Gambier, W. Australia.

LONGIDACTYLA (Guernea) Hirayama, 1986. Hong Kong.

LONGIDACTYLUS (*Eohaustorius*) Jo, 1990. Chungnam, S. Korea

LOWRYI (*Shoemakerella*) Gable & Lazo- Wasem, 1990. Bermuda.

MACINERINEYI (Photis) Conlan, 1983. British Columbia

MACKIEI (Guernea) Hirayama, 1986. Hong Kong.

MACRODACTYLA (Cheirimedeia) Conlan, 1983. St. Lawrence Isl., Alaska.

MAGELLANICA (*Curidia*) Coleman & Barnard, 1991. Magellan Straits, S. America.

MARGULISAE (*Pleusymtes*) Tzvetkova & Golikov, 1990. Laptev Sea.

MESSANAI (Niphargus) Karaman, 1989. Tuscany, Italy.

MIAE (Gammarus) Mateus & Mateus, 1980. Iran.

MIOSPINULOSUM subsp. (Corophium sextonae) Hirayama, 1986. Hong Kong.

MONDLANEI (Gammaropsis) Ortiz, 1990. Mozambique

MORINOI (Jassa) Conlan, 1990. Japan

MORTONI (Corophium) Hirayama, 1986. Hong Kong

MURIVAI (Colomastix) Myers, 1990. Rarotonga, Cook Isl.

MYERSI (Jassa) Conlan, 1990. California.

MYTILUS (*Euonyx*) Barnard & Ingram, 1990. Galapagos Vents.

NEBULOSUS (*Tectovalopsis*) Barnard & Ingram, 1990. Jasper Seamount, vent area.

NEWTONI (Caribotroides) Lindeman, 1990. Oaxaco, Mexico.

OCLAIRI (Jassa) Conlan, 1990. Amchitka Isl., Alaska.

ODETTAE (Gammarus) Mateus & Mateus, 1990. Central Turkey

OLIGOCHAETA (*Photis*) Conlan, 1983. British Columbia.

ORUBRAEDON (Cyamus) Waller, 1989. ?

OXICARINATA (Epimeria) Coleman, 1990. 61°S, 56°W,

PACHYDACTYLA (Photis) Conlan, 1983. British Columbia.

PAGETI (Gammarus) Mateus & Mateus, 1990. E. Turkey.

PANINI Gurjanova nom. nud. (Harpinia) Tzvetkova & Golikov, 1990. Laptev Sea.

PAREOUS (Anonyx) Steele, 1991. Okhotsk Sea

PARVIDOUS (Photis) Conlan, 1983. British Columbia.

PATAGONICA (Gondogeneia) Alonso, 1986. Santa Cruz, Argentina.

PECKI (Caribotroides) Lindeman, 1990. Oaxaca, Mexico.

PECTENCORONATAE (Niphargus) Sket & Karaman, 1990. Dalmatia, Kroatia.

PETRAE (Liljeborgia) Lyons & Myers, 1991. Gulf of Aqaba, Red Sea.

PLUMIPES (Gammarus) Mateus & Mateus, 1990. Iran.

POLYNESICA (Fallotritella) Müller, 1990. Bora Bora, Society Islands.

PRETZMANNI (Gammarus) Mateus & Mateus, 1990. Iran.

PSEUDEOUS (Anonyx) Steele, 1991. Cape Lisburne, Alaska.

PTERISCHIUS (Lemboides) Lyons & Myers, 1990. Gulf of Agaba, Red Sea.

PULCHRA (Epimeria) Coleman, 1990. 61°S, 45°W.

QUADRIDENTATA (*Melita*) Yamato, 1990. Seto Inland Sea, Japan.

REGELATUS (*Tectovalopsis*) Barnard & Ingram, 1990. Hess Guyot, vent area.

RHEOPHILUS (Rhipidogammarus) Stock & Sanchez, 1990. Tenerife, Canary Isl.

RUBRIEQUES (*Epimeria*) De Broyer & Klages, 1991. Weddell Sea, Antarctic.

RUFFOI (Metacrangonyx) Messouli, Boutin & Coineau, 1991. Azib Asseln, Morocco.

SABULONIS (Metaniphargus) Vonk, 1991. Cayman Isl., Caribbean.

SAFIAE (Leucothoe) Lyons & Myers, 1991. Gulf of Aqaba, Red Sea.

SALOMANI (Americorchestia) Bousfield, 1991. W. Florida, USA

SARDOUS (*Tyrrhenogammarus*) Karaman & Ruffo, 1989. Sardinia, Italy.

SETOSA (Podoceropsis) Conlan, 1983. Aleutian Islands.

SETULOSUS (Eohaustorius) Jo, 1990. Pusan, S. Korea.

SHAWI (Jassa) Conlan, 1990. British Columbia.

SHOEMAKERI (Gammaropsis) Conlan, 1983. British Columbia.

SHOEMAKERI (*Metopa*) Tzvetkova & Golikov, 1990. Laptev Sea.

SIMILICARPA (Cheirimedeia) Conlan, 1983. British Columbia.

SIMILIS subsp. (*Niphargus galvagni*) Karaman & Ruffo, 1989. Italian Alps.

SINEPLUMOSA (Sunamphitoe) Kim & Kim, 1991. Ulreung Isl., S. Korea.

SINICA (Bogidiella) Karaman & Sket, 1990. Zhuang AR, China.

SKETI (Gammarus) Karaman, 1989. Lake Ohrid, Montenegro.

SLATTERYI (Jassa) Conlan, 1990. California.

SOMBATI (Guernea) Hirayama, 1986. Hong Kong.

SPINIGERUS (Eohaustorius) Jo, 1990. Chungnam, S. Korea

SQUAMOSA (Hyalella) Mateus & Mateus, 1990. Guadeloupe, W. Indies.

STAUDEI (Jassa) Conlan, 1990. British Columbia.

STOCKI (Bogidiella) Karaman, 1990. Sinai peninsula, Egypt.

STOCKI subsp. (Hadzia fragilis) Karaman, 1989. NE Italy.

STOCKI (Jerbarnia) Thomas & Barnard, 1990. Great Barrier Reef.

STOCKI (Maera) Mateus & Mateus, 1991. Cap Verde.

STOCKI (Orchestia) Ruffo, 1990. Gran Canaria, Canary Isl.

STOCKI (*Orchomene*) Bellan- Santini, 1990. 13°N, 59°W, deep water.

STOCKI (*Pontogeneia*) Hirayama, 1990. Fukushima pref., Japan.

STOCKI (Psammogammarus) Vonk, 1990. Tenerife, Canary Isl.

SULFURIS (Ventiella) Barnard & Ingram, 1990. Galapagos

Rift, vent area.

TABACI (Netamelita) Thomas & Barnard, 1991. Belize, C. America.

TAIHUENSIS (Grandidierella) Morino & Dai, 1990. Taihu, Wuxi, China.

THURSTONI (Jassa) Conlan, 1990. S. Orkney Isl., subantarctic.

TORRENTICOLA (Bogidiella) Pretus & Stock, 1990. Mallorca, Spain.

TORRENTIS (*Transtectonia*) Barnard & Ingram, 1990. 13°N 104°W, vent area.

TRIANGULOPEDARUM (*Corophium*) Hirayama, 1986. Hong Kong.

TRIDENTIUM (Corophium) Hirayama, 1986. Hong Kong.

TROPHERUS (*Photis*) Thomas & Barnard, 1991. Dominica, West Indies.

TUCUMANENSIS (Bogidiella) Grosso & Fernandez, 1985. Tucuman, Argentina.

TUXTLENSIS (Caribotroides) Lindeman, 1990. Vera Cruz, Mexico.

TYPHODES (*Diatectonia*) Barnard & Ingram, 1990. Hamilton Guyot, vent area.

TZVETKOVAE (Paraeurystheus) Conlan, 1983. Aleutian Isl.

ULREUNGENSIS (*Podocerus*) Kim & Kim, 1991. Ulreung Isl., S. Korea.

UNCIFERUS (Liagoceradocus) Stock & Iliffe, 1991. Fiji.

VALEDICTUS (Echinogammarus) Pinkster & Platvoet, 1990. Algeria.

WARRAINA (*Iphimedia*) Thomas & Barnard, 1991. S. Australia.

WEGENERI (*Tectovalopsis*) Barnard & Ingram, 1990. 13°N, 104°W, vent area.

WILLIAMSONI (Cheiriphotis) Salman & Jabbar, 1990. Iraq.

XESTA (*Iphimedia*) Thomas & Barnard, 1991. Madang, Papua NG

ZORA (*Iphimedia*) Thomas & Barnard, 1991. Florida Keys, USA.

SYSTEMATIC INDEX TO NEW AMPHIPOD GENERA AND SPECIES IN AN 11-19

Wim Vader

This list covers all new taxa indexed in AN 18, plus those described in papers listed in AN 19; the latter are marked (19) in the list. New genera are written with capitals.

For the sake of easy reference, the present list follows the taxonomy of the recent handbook by Barnard & Karaman (1991), even where more recent revisions have changed the picture. Thus the Corophioidea, Eusiridae, Iphimediidae and Lysianassoidea are here all treated 'sensu lato', as in the handbook. For the gammaroid complex, the earlier handbook by Barnard & Barnard (1983) has been used with the following, admittedly quite arbitrary headings: Anisogammaridae, Artesiidae, Bogidiellidae, 'greater Ceradocus group' (IX A in Bnd & Bnd), cheirocratids (VIII), crangonyctoids, gammaroids (III minus Pontoporeiidae), Gammaroporeiidae, 'Hadzia-Weckelia group' (IX D), Melitidae (IX E 1,2), Mesogammaridae, 'niphargids' (IX E 3-4), Pontoporeiidae, and Salentinellidae. (A few 'hard nuts' are placed as 'incertae sedis' with the gammaroids.). The other suborders have much fewer new taxa, so have been treated practically without subdivision, although the Cyamidae have been kept apart.

It is virtually impossible to satisfy everybody with a list like this one. I can see clear shortcomings myself:

- 1) New families and new subgenera are not included here (Subspecies have been treated as species).
- 2) Only new taxa are listed, not i.a. those spp that have been transferred from one genus to another.
- 3) This list can only be used together with the alphabetic indexes in AN 18 and 19, and only used properly in conjunction with the bibliographies in earlier newsletters.
- 4) The list is uncritical. In all cases the judgement of the original authors has been followed, even where this deviates from the verdict of the B & K- handbook.

It is my intention from now on to publish a similar systematic index in each issue of AN, if there is interest for that. I shall therefore be most grateful for all critical comments and suggestions for improvement.

Ampeliscidae

Ampelisca acutidentata, armoricana, ballina, bicarinata, bidura, brachycladus (19), burkei, calooma, careyi, dallenei, dimboola,e rythrorhabdota, euroa, fageri, hawaiiensis, hessleri, jingera, karamani, lenoldii, macrodonta, melaniensis, melitae, monoculata, monodi, narooma, nossibeensis, parapacifica, paria, remora, spooneri, tilpa, toora, toulemonti, verga, yuleba.

Byblis bega, frigidus, gerara, gloriosae, inaequicornis, mildura, robustus, tinamba.

Byblisoides cubensis, plumicornis

Haploops fundiensis, oona.

Amphilochidae

AFROGITANOPSIS

Amphilochus casahoya, delacaya, pillaii, ruperti

Gitana dominica (19), gracilis

Gitanopsis baciroa, breviculus, japonica, laguna, longus, petulans, robustodentes, tai,? tenuipes

PARAMPHILOCHUS parachelatus

ROSTROGITANOPSIS

Ampithoidae

Ampithoe brevipalma, dentimana, fastidiosa (19), guaspare, hirsuta, kaneohe navosa (sub Pleonexes), kava, koreana, kuala, maxillisius, nobrei, plumicornis, sectimanus, spuria, tahue, vacoregue, youngsanensis

Cymadusa grossimana, lunata, pilipes

Examphithoe (MELANESIUS) cooki, gracilipes

Paradusa bilobata, pilipes

PERAMPHITHOE baegryeongensis, lessoniophila, namhaensis

PLUMITHOE (19)

PSEUDOPLEONEXES

Sunamphitoe sineplumosa (19)

Anamixidae

Anamixis barnardi

Paranamixis aberro, denticulus (19), madagascarensis

Anisogammaridae

Anisogammarus madyensis **ANNANOGAMMARUS BARROWGAMMARUS**

CARINEOGAMMARUS

Eogammarus oclairi, psammophilus

JESOGAMMARUS fluviatilis, hokurikuensis, naritai, paucisetulosus, spinipalpus, suwaensis.

LOCUSTOGAMMARUS levingsi

RAMELLOGAMMARUS vancouverensis

SPASSKOGAMMARUS tzvetkovae

Artesiidae

ARTESIA subterranea

Bateidae

Carinobatea bousfieldi (19), campi (19)

Biancolinidae

Biancolina (obtusata) sachalinensis

Bogidiellidae

ACTOGIDIELLA cultrifera AEQUIGIDIELLA aquilifera

AFRIDIELLA messanai, pectinicauda

Bogidiella antennata, aprutina, aquatica (19), arganoides, atlantica (19), balearica, calicali, capia, cerberus, chitalensis, convexa, cooki, cypria (19), cyrnensis, deharvengi, gammariformis, glabra, hamatula, hispanica, horcomollensis, italica, mexicana, nicolae, nubica, paolii, paraichnusae, perla, prionura, purmamarcensis, purpuriae, ringueleti, sarawacensis, serbica, silverii, sinica (19), sketi, spathulata, talampuyensis, thai, torrenticola (19), tucumanensis (19), tyrrhenica, uncinata, uniramosa, virginalis

EOBOGIDIELLA HEBRAEDIGIDIELLA bromleyana MAGHREBIELLA maroccana MARIGIDIELLA crassipes **MARINOBOGIDIELLA** NUBIDIGIELLA PARABOGIDIELLA americana

SOMAGIDIELLA

Ceinidae

AUSTROCHILTONIA (revived)

Cheidae

CHEUS annae

Greater Ceradocus group

ANAMAERA hixoni

ANIMOCERADOCUS

Ceradocus crenatipalma, inermis, koreanus, mahafalensis, oxyodus, tattersalli, woorrea, yondala COXOMAERELLA pirloti

Elasmopus alalo, balkomanus, bampo, crenulatus, integer, koreanus (19), lapu, mayo, ocoroni, rishikondiensis, seticarpus, spinicarpus, spinipalpus, spinipes, temori, tiburoni, tubar, visakhapatnamensis, waltersi, zoanthidea

Maeraaequimana, anoculata, atlantica, brevispina (19), chinarra, excavata, gloriosae, griffini, lacertosa (19), leopoldinae, lindsae, mooreana, multispinosa, pedonculata, pseudomarginata, reishi, stocki

Mallacoota bahara, latidactylus, nananui, schellenbergi, subinsignis

MEGACERADOCUS gigas

Meximaera sinuata

Paraceradocus gibber, ramulus, stenepimerus, trispinosus

Parelasmopus mallacootaformis, zelei

Quadrivisio bousfieldi, lobata

cheirocratids

AUROHORNELLIA

Cheirocratus armatus, bassi, praedens, spinibasus, unidentatus

DEGOCHEIROCRATUS spani

Gibberulus devaneyi, falciformis

Hornellia atlantica, tequestae

INCRATELLA (= INDOCRATUS)

Jerbarnia americana, aquilopacifica, stocki (19), tridentata

Maerella ledoyeri

Megaluropus excavatus, myersi

Melphidippa linea

Melphisana madagascarensis

MELPHISUBCHELA subprehenda

Metaceradocus bidentatus, ? inermis

PROSOCRATUS butcheri

RESUPINUS coloni, spinicaudatus

Colomastigidae

Colomastix armata, azumai, brevicornis, cornuta, inaequicornis, janiceae, laminosa (19), murivai

(19), plumosa, prionotos (19), spinosa, truncatipes

Yulumara armadillicta, tricuspis

Condukiidae

CONDUKIUS karkan

? OTAGIA

Corophioidea

AETIOPEDES gracilis

AFRICOECETES

ANONYCHOCHEIRUS richardsoni

Aora adpressa, hebes, hircosa, pseudotypica

Aorcho gracilipes, nanus

AORELLA multiplex

Aoroides exilis, inermis, intermedius, pseudotypica

AUSTRALOECETES jervidis

AUSTRALOMICRODEUTOPUS

BARACUMA alquirta

BEMLOS arkoolus, bidens, (ephippium) disjuncta, dolichomanus, ephippium, gilgi, mollis, strigilis, tridentatus, tris, trudis.

Bonnierella dimorpha

BORNEOECETES wongi

BUBOCOROPHIUM

CARIBBOECETES barbadensis, crassicornis, intermedius, jenikarpae, magellani, pterycornis, squamiferus.

CENTRALOECETES

Cerapus benthophilus, erae, fallohideus, harfootus, oceanicus, pacificus, stoorus

CHAETOCOROPHIUM

Cheirimedeia macrodactyla

Cheiriphotis madagascarensis, mediterranea, minima, rotui, williamsoni

COLUMBAORA cyclocoxa

Concholestes omani

COROCUBANUS guitarti

DODOPHOTIS

Ericthonius coxacanthus, fasciatus, latimanus, punctatus, stephenseni, tacitus

Gammaropsis aculeata, arawakia, crenulata, deseadensis, dilatata, ellisi (19), emancipata, incideris (19), insignis, latipalma, longipropodi, modianei (19), nantis, pseudodenticulata, shoemakeri (19), sutherlandi, ulrici, (atlanticus) varius

GLOBOSOLEMBOS lunatus

Grandidierella exilis, indentata, insulae, longidactylus, propodentata, taihuensis (19), teres, vietnamica.

Haplocheira plumosa

Jassa alonsoae (19), borowskyae (19), carltoni (19), fenwicki (19), gruneri (19), hartmannae (19), justi (19), morinoi (19), myersi (19), oclairi (19), shawi (19), slatteryi (19), socia (19), staudei (19), thurstoni (19).

Kamaka palmata

Konatopus latipalma, tulearensis

Kuphocheira emancipata

Lemboides caecus, pterischium (19)

Lembos achire, aoraformis, barnardi, chiltoni, clavatus, denticarpus, habanensis, hippocrenes, mayensis, ovalipes, ovatus, pertinax, regius, saloteae, spinimerus, (denticulatus) taparum, tehuecos, tempus, tiafaui, tigrinus, tui, virgus.

Leptocheirus dufresni, rhizophorae

LIOCUNA caeca

?obliquimana

MERÎDIOLEMBOS

Microjassa chinipa

Neohela intermedia

Neomegamphopus heardi, hiatus, kalanii, pachiatus

PAGURISAEA schembrii

PARACERAPUS

Paracorophium chelatum, chilense, hartmannorum

Parajassa andromedae, bidentata, spinipalma

PARAMICRODEUTOPUS

PAREURYSTHEUS amakusaensis, gurjanovae, latipus, tzvetkovae (19).

PEDICOROPHIUM

Photis albus, beringiensis, cavimana, japonica, lamina, macinerineyi (19), macromana, nigrocula, oligochaeta (19), pachydactyla (19), parvidous (19), phaeocula, pirloti, pollex, tropherus (19).

PLESIOLEMBOS

Podoceropsis amchitkensis (19), angustimana (19), chionoecetophila (19), setosa (19).

POLYNESOECETES kekeae

POSOPHOTIS seri

PROTOLEMBOS arinyas, drummondae, murrarum, varanus

Protomedeia crudoliops

Pseudischyrocerus crenatipes

Pseudomegamphopus chelatus, pseudochelatus

PSEUDOPHOTIS ariakensis

RAKIROA rima

RHINOECETES

Siphonoecetes arabicus, exolitus, kroyeranus, neapolitanus, striatus

STEBBINGOECETES

STENOCOROPHIUM bowmani

TETHYLEMBOS

Unciola integripleura

Unciolella articulata

VAROHIOS topianus

Ventojassa crenulata, dentipalma (19)

Xenocheira ?angusticarpa, pirloti

ZOEDEUTOPUS cinaloanus

crangonyctoids

ANTIPODEUS franklini

AUSTROCRANGONYX

AUSTROGAMMARUS multispinatus, saycei, spinatus

Crangonyx aberrans

DUSSARTIELLA madegassa

Paramelita flexa

SANDRO

Sternophysinx alca

Stygobromus canadensis, quatsinensis, secundus

STYGONYX courtneyi

Synurella lepida (19), (coeca) rafalskii

TASNIPHARGUS tyleri

Uroctena affinis

URONYCTUS (19) longicaudus (19)

WESNIPHARGUS

YULIA

Cyproideidae

Austropheonoides splendens, truganini Cyproidea liodactyla, marmorata

Moolapheonoides angustipes, (coocoo) seraa

TEREPELTOPES dolichorhunia

Dexaminidae

Atylus brevitarsis, megalops, tulearensi s,urocarinatus

DEXAMINOCULUS (=Sphaerophthalmus) acutipes, cavimana

Guernea ezoensis, longicornis, longidactyla (19), mackiei (19), magnaphilostoma, minor, nullispina, rectocephala, sombati (19), spinicornis, tenuipes, terelamine, tomiokaensis.

HAUSTORIOPSIS brevispinis, latipes

Lepechinella grimi, helgii, madagascarensis, skarphedini

LEPECHINELLOIDES karii

LEPECHINELLOPSIS brevicaudata, inaequicaudata

Paradexamine bisetigera, excavata, gigas, micronesica, rewa, setigera

Paralepechinella longicornis

Polycheria amakusaensis, (atolli) orientalis

SEBADEXIUS neocaledoniensis

Didymocheliidae

Didymochelia edwardi

Dogielinotidae

DOGIELINOIDES golikovi

EOHAUSTORIOIDES

 $\it Haustorioides$ gurjanovae, indivisus, koreanus, latipalpus, magnus, nesogenes $\it PROBOSCINOTUS$

Eophliantidae

Bircenna dronga

Eusiridae s.l.

ABDIA

Apherusa vexatrix

Atylopsis fragilis, procerus

Bathyschraderia fragilis

CALLIOPIURUS excellens

Cleonardo brevipes

Eusiroides aberrantis, dentimerus, (monoculoides) japonicus, yucatanensis

Eusirus crosnieri, latirostris, propeperdentatus

DAUTZENBERGIA

Gondogeneia dentata (19), patagonica (19), thurstoni

Halirages caecus

MANEROGENEIA

MEMBRILOPUS

NASAGENEIA yucatanensis

Oradarea ? scissicaudata

Paramoera hanumarai (19), incognita, stephenseni

Pontogeneia opata, stocki (19)

RELICTOMOERA

Rhachotropis arii, gislii, gloriosae, schellenbergi, thordisae, thorkelli

STERNOMOERA

Tethygeneia cavitelson

WHĂNGARUSA

Exoedicerotidae

METOEDICEROPSIS dadoensis

Patuki roperi

VADOSIAPUS copacabanus

WARREYUS

'gammaroids'

ABLUDOGAMMARUS

Accubogammarus (algor) jalzici

Carinurus amentatus, bazikalovae, bifrons

CEPHALOGAMMARUS

Chaetogammarus oliviiformis

CONDICIOGAMMARUS

Dikerogammarus gruberi (19)

Echinogammarus antalyae, cyrtus, dactylus, pseudoaquilifer, pungentioides, valedictus (19)

Gammarus belli, caparti, chimkenti, desperatus, dorsosetosus (19), galgosensis, (songirdaki) hissari, hongyuanensis, hoonsooi, inopinatus (19), (sobaegensis) kimi, lasaensis, ledoyeri, leopoliensis, longipedis, lychnidensis, (sobaegensis) marginalis, miae (19), odaensis, odettae (19), orinos, oronticus, pageti (19), parechiniformis, plumipes (19), pretzmanni (19), pseudanatoliensis, salemaai, shanxiensis, sketi(19), solidus, songirdaki, soyoensis, stupendus, vignai, zeongogensis.

JUBEOGAMMARUS

KUZMELINA

LANCEOGAMMARUS

LAUROGAMMARUS

LUSIGAMMARUS

PALICARINUS

PALLASIOLA

PSEUDACANTHUS

RELICTACANTHUS

Rhipidogammarus nivariae, rheophilus (19), triumvir, variicauda

Sarothrogammarus contiguus

TADZHIKISTANIA

TURCOGAMMARUS

TYRRHENOGAMMARUS (19) sardous (19)

YOGMELINA limana

incertae sedis

Eoniphargus glandulatus (19) GAMMAROPISA arganoi SENSONATOR valentiensis

Gammaroporeiidae

GAMMAROPOREIA

Hadzia-Weckelia group

AFROCRANGONYX

ALLOTEXIWECKELIA hirsuta

APOWECKELIA serrata

BAHADZIA latipalpus, obliqua, setimana, stocki, williamsi

CRANGOWECKELIA mixta, spinicauda

Dulzura gal, lobata (19), paucispinosa

FIHA schminkei

Hadzia (fragilis) drinensis, pachypoda, (fragilis), stocki (19)

HOLSINGERIUS

Liagoceradocus acutus, dentiferus, lobiferus (19), unciferus (19)

LONGIPODACRANGONYX

Metacrangonyx aroundanensis (19), delamarei (19)

gineti, goulminensis (19), ruffoi (19), sinaicus

Metahadzia adriatica, helladis, uncispina

Metaniphargus anchihalinus, bullipes, chaetodactylus, craterensis, crenatus, haitianus, hyporheicus, juberthiei, longidactylus, ortali, plumicauda, sabulonis (19), spinicauda, venezolanus

PACHYPODACRANGONYX maroccanus

PARAMEXIWECKELIA

PARHADZIA sbordonii

PHREATOMELITA paceae

PINTOWECKELIA grandis
PYGOCRANGONYX repens

QUADRUS vagabundus

RADOWECKELIA brevicauda
SRIHA
TEXIWECKELIA insolita, samacos
TEXIWECKELIOPSIS
THALASSOSTYGIUS (19) exiguus (19)

TULUWECKELLA (19) cernua (19)

ZHADIA subantarctica

ZOMBIWECKELIA parvipalpus

Haustoriidae

Acanthohaustorius bousfieldi, pansus, similis, uncinus

Eohaustorius longidactylus (19), setulosus (19), spinigerus (19), stocki (19), subulicola, tandeensis

Haustorius jayneae (19)

Lepidactylis triarticulatus

Parahaustorius obliquus

Protohaustorius bousfieldi

Hyalellidae

Hyalella paramoensis, squamosa (19)

Hyalidae

Hyale barbicornis, bidentata, bisaeta (19), canalina, corallinacola, darwini, didendactyla, (galateae) distorta, gopalaswamyi, guasave, inermis, ishigakiensis, punctata, punila, uragensis, yaqui, zuague Lelehua malevua Parallorchestes asiaticus (19)
Parhyale basrensis, explorator, multispinosa

Ipanemidae

IPANEMA talpa

Iphimediidae s.1.

Acanthonotozoma dunbari, gurjanovae, magnum, sinuatum Acanthonotozomella barnardi ACANTHONOTOZOMOPSIS pushkini Amathillopsis comorensis, septemdentata AMATIGUAKIUS (19) forsberghii (19) ANISOIPHIMEDIA AUSTROREGIA

Coboldus laetifucatus (19) CURIDIA debrogania, magellanica (19)

COMDIA debiogania, magenanica (17)

Cypsiphimedia edgari, mala

Echiniphimedia barnardi, gabrielae, waegelei

Epimeria bispinosa, extensa, obtusa, oxicarinata (19), pulchra (19), rimicarinata, rubrieques (19), truncata

Gnathiphimedia urodentata

Iphimedia brachygnatha, gibbula, imparilabia, magellanica, quasimodus, serratipes, vicina, warraina (19), xesta (19), zora (19)

Iphimediella acuticoxa, discoveryi, georgei,

paracuticoxa

MERALDIA

Ochlesis carinatus

OCHLESODIUS spinicornis

Odius antarcticus

Parapanoploea recessa

Parepimeria minor

Pariphimedia incisa

POSTODIUS imperfectus

STEGOPANOPLOEA

Laphystiopsidae

Prolaphystiopsis latirostris

Leucothoidae

Leucothoe bidens, campi, ctenochasma, gavialis, laticoxa, (richiardi) macrodonta, nagatai, neptunea, orkneyi, procera, safiae (19), squalidens.

Liljeborgiidae

Idunella bowenae, nagatai, sketi

ISIPINGUS

Liljeborgia bousfieldi, dubia, enigmatica, gloriosae, hwanghaensis (19), mozambica, petrae (19), pseudomacronyx

Listriella bahia, carinata, dentipalma, mollis, orientalis, quintana, spinifera, titinga.

SEXTONIA (revived)

Lysianassoidea s.l.

ACHERONIA pegasus

Acidostoma sarsi

Acontiostoma tuberculata

Ambasiopsis brevipes

Anonyx attenuatus, barrowensis, beringi, dalli, eousides (19), grebnitzkii (19), gurjanovae, hayashii, hurleyi, lebedi, orientalis, pareous (19), petersoni, pseudeous (19), schefferi, shoemakeri, simplex, stappersi, stebbingi, stegnegeri

APOTECTONIA (19) heterostegos (19)

Aristias nonspinus, stenopodus

Aroui hamatopodus

Bathycallisoma armata

BONASSA (19)

BRUUNOSA

CAECONYX (19)

CEDROSELLA

Cheirimedon (macrocarpa) americana (19), solidus

CICADOSA

CONCARNES (19)

CONICOSTOMA karta

COXIMEDON (19)

Cyphocaris cornuta, geyserensis

DARTENASSA (19)

DIATECTONIA (19) typhodes (19)

DISSIMINASSA (19)

DOUNIALELLA longichelata

DRUMMONDIA corinellae, parviramus

EKELOFIA

Ensayara dentarius, entrichoma (19), iara, jumane, microphthalma

ERIKUS dahli

Euonyx mytilus (19)

FALCANASSA (19)

FALKLANDIA

Figorella - tasmanica

GALATHELLA

Glycerina teretis

GRONELLA (19)

Hippomedon benthedii, columbianus, hake, mamene, matikuku, rodericki, whero

? Hippomedon adentatus, brevicaudatus, denturus

Hirondellea glutonis (19), guyoti (19)

Ichnopus pseudoserricrus KAKANUI punui

Kerguelenia antiborealis, macropoda, microphthalma

Lepidepecreella pamanzi

Lepidepecreum carinatum, infissum, madagascarense, rometacarinatum

LEPIDURISTES

LUCAYARINA catacumba

Lysianassa caesarea, insperata, kerakae (19), (cinghalensis) latipes

Lysianopsis tieke

MACRONASSA (19)

MARTENSIA (19)

Normanion chevreuxi, ruffoi

Ocosingo fenwicki, kussakini

Orchomene aahu, breviceps, hiata, kaikai (19), kryptopinguides, limodes, liomargo, orchospina, scotianensis, stocki (19), tomiokaensis

Orchomenella guillei

ORCHOMENYX

Pachychelium nichollsi, schellenbergi

Pachynus denticulatus, pugilator

PARACHEVREUXIELLA lobata

Parambasia nui

Parawaldeckia angusta, dabita, hirsuta, karaka, lowryi, mua, parata, pulchra, suzae, vesca

PARDIA

PARSCHISTURELLA simplex

Psammonyx longimerus, terranovae

PSEUDAMARYLLIS nonconstricta

PSEUDOCYPHOCARIS coxalis, gosema (19), lobata (19)

RIMAKOROGA

Schisturella parachelata

SCOPOLOSTOMA

Scopelocheirus polymedus

SEPTCARNES (19)

SHEARDELLA kapala, tangaroa

SHOEMAKERELLA lowryi (19)

Socarnes allectus

Socarnoides indentata

STEPHONYX

Stomacontion hurleyi, pungapunga

TECTOVALOPSIS (19) diabolus (19), fusilus (19), regelatus (19), wegeneri (19)

Thrombasia incerta

Tmetonyx nardonis, palpiserrata

TRANSTECTONIA (19) torrentis (19)

Trischizostoma denticulatum

Tryphosella longidactyla, serans, simillima

Uristes ?latipes

Valettia hystrix

VALETTIETTA cavernicola, gracilis, lobata, punctata

VENTIELLA (19) sulfuris (19)

Waldeckia elephas, scrupulosa

WANDIN (19) griffini (19)

WECOMEDON similis

Maxillipiidae

MAXILLIPIDES laticarpus Maxillipius commensalis

'melitids'

ABLUDOMELITA

ALLOMELITA

ALSACOMELITA semipalmata

ANCHIALELLA vulcanella

CARINOMELITA (19) janstocki (19)

CEPHALOPISELLA

CONFODIOPISA

DULICHIELLA (revived)

DUMOSUS atari

Eriopisa inaquicaudata, incisa, melitaformis

Eriopisella chieregoi, spinosa

FLAGITOPISA

GINIPHARGUS

HOHO hirtipalma

IMPERTIOPISA

JOSEPHOSELLA andamana, hamata

MADAPISELLA

MALERIOPA

Melita alluaudi, bingoensis, dulcicola (19), elongata, ? excavata, hoshinoi (19), intermedia, leiotelson, longidactyla, longisetosa, mikulitschae, myersi, nagatai, persona, pilopropoda, plumulosa, quadridentata (19), setiflagella, sexstachya, simplex, stocki, unamoena

NAINALOA

Netamelita barnardi, brochi(19), tabaci (19)

NIPPOPISELLA

Psammogammarus caesicolus, initialis, longidactylus, scopulorum, stocki (19)

PSAMMOMELITA uncinata

ROROPISA

SPATHOPUS looensis

SPINIFEROPISELLA

TAGUA aporema

TEGANO

TUNISOPISA

VICITOPISA

VICTORIOPISA atlantica, (chilkensis) griffithsi, papice

Mesogammaridae

PARAMESOGAMMARUS americanus

Niphargidae (incl. Pseudoniphargus)

FORONIPHARGUS pori

Haploginglymus bergae(19), lobatus, mateusi

NIPHARGOBATES lefkodemonaki (19), orophobata

Niphargus (strouhali) alpinus (19), arbiter, arcanus, armatus, aulicus (19), (tamaninii) barbatus, bodoni, caelestis, carcerarius, casimiriensis, (transitivus) dissonus, farroi, hercegovinensis, ictus, itus, (rejici) jadranka, jalzici, jugoslavicus, lattingerae, (steueri) liburnicus, longiflagellum, lunaris, messanoi (19), parapupetta, pectencoronatus (19), pescei, poianoi, pseudocaspius, renei, (spoeckeri) sibillianius, (galvagni) similis (19), (pasquini) socialis, spinulifemur, tamaninii, timavi, vieternicensis.

PARAPSEUDONIPHARGUS baetis

Pseudoniphargus affinis, associatus (19), branchiatus, brevipedunculatus, burgensis, callaicus, candelariae (19), cazorlae, cupicola, eborarius, elongatus, fontinalis, fragilis, gibraltaricus, gomerae, gorbeanus, gracilis, granadensis, grandis, guernicae, illustris, incantatus, inconditus (19), (africanus) italicus, jereanus, latipes, longicarpus, longicauda, longispinum, macrotelsonis, margalefi, maroccanus, mateusarum, mercadoli, montanus, multidens, nevadensis, porticola, salinus, semielongatus, sodalis (19), sorbasiensis, spiniferus, stocki, unisexualis, unispinosus, vasconiensis, vomeratus

Oedicerotidae

ABOROLOBATEA paracheliformis

Aceroides goesi

Arrhis ? mediterranea

CHITONOMANDIBULUM emargicoxae

CORNUDILLA (19)

DOOWIA cooma, dexterae

MACHAIRONYX muelleri

Monoculodes acutipes, dentimanus, koreanus, muwoni

Oedicerina ? megalopoda

Oediceroides pilosus

Perioculodes brevicarpus, cerasinus, longirostratus, (aequimanus) mozambicus, pinguis, seohae

Synchelidium carinorostrum, (americanum) latipalpum, lenorostratum, micropleon, rostriopiculum, trioostegitum

Pagetinidae

Pagetina reducta

Paracalliopiidae

INDOCALLIOPE

KATOCALLIOPE kutyeri

Paracalliope mapela

Pardaliscidae

ANTRONICIPPE serrata
Arculfia (trago) mediterranea
Halice sublittoralis
Pardalisca brachydactyla, mediterranea
Pardaliscella inermis
SPELAEONICIPPE provo

Phliantidae

Heterophlias galapagoanus, seticoxa Palinnotus (thompsoni) japonicus, lepas

Phoxocephalidae

BASUTO

Birubius apari, babaneekus, booleus, cartoo, chintoo, eake, eleebanus, gallangus, gambodeni, gelarus, jirrandus, kabbulinus, karobrani, kinkus, kokorus, kyeemus, lorus, lowannus, maamus, maldus, mayamayi, millinus, muldarpus, munggai, nammuldus, narus, quearus, taldeus, thalmus, ularitus, wirakus, wulgaru, yandus, yorlunus.

BOORANUS tikeri, wangoorus, weemus BROLGUS koongarrus, mahmak, tavelus

CEPHALOPHOXOIDES

CEPHALOPHOXUS
COCOHARPINIA iliffei

CUNMURRA itickerus

DIOGODIAS

ELPEDDO kaikai

EOBROLGUS chumashi

EUSYROPHOXUS

EYAKIA

FERIHARPINIA

FOXIPHALUS apache, golfensis, secasius, xiximeus

FUEGIPHOXUS abjectus

GANBA pellati

GRANDIFOXUS acanthinus, aciculata, bangpoensis, cuspis, malipoensis, vulpinus

Harpinia agna, ala, clivicola, ferentaria, panini (19), zavodniki

Harpiniopsis bandelei, capensis, pseudonadania

HOPIPHOXUS

JAPARA papporus

JERILDARIA joubiphoxus

Joubinella indentata

KONDOLEUS tekin

KOTLA batturi

KULGAPHOXUS borralus, cadgeeus

KURITUS nacoomus

LEONGATHUS nootoo

Limnoporeia kalduke, maranowe, ungamale, wakkine, woorake, yarrague

Mandibulophoxus hongae, mai

MATONG matong

MESOPHOXUS laperusi

Metaphoxoides angustimanus, zavorus

Metaphoxus gruneri, mintus, tuckatuck, tulearensis, yaranellus

Metharpinia coronadoi, oripacifica

PALABRIAPHOXUS

PARAJOUBINELLA

PARAMESOPHOXUS rakunae

PARAMETAPHOXUS

Paraphoxuslincolni, tomiokaensis

Parharpinia warte

Phoxocephalus aquosus, burleus, keppeli, kukathus, prolixus, rupullus

PHOXORGIA

Proharpinia setifera

Pseudharpinia calcariaria

RHEPOXYNIUS homocuspidatus, hudsoni, menziesi

RIKKARUS lea
RINGARINGA (19)
SYNPHOXUS novaezealandicus
TICKALERUS birubi
TIPIMEGUS dinjerrus, kalkro, kangulun
TORRIDOHARPINIA
ULDANAMIA pillare
VASCO
WAIPIROPHOXUS
WILDUS mullokus, parathambaroo, thambaroo
YAMMACOONA kunarella
YAN errichus, tiendi

Phoxocephalopsidae

EOPHOXOCEPHALOPSIS rhachianensis Phoxocephalopsis gallardoi, mehuinensis PUELCHE orenzani

Platyischnopidae

EUDEVENOPUS honduranus
Platyischnopus mam
SKAPTOPUS brychius
TIBURONELLA
TITTAKUNARA katoa
TOMITUKA doowi
YURROKUS cooroo

Pleustidae

DACTYLOPLEUSTES obsolescens

Parapleustes dilatatus, filialis, longimanus, tricuspis

Pleustoides mediterraneus

Pleusymtes brachypalma, (quandrangularis) brevis, kamui, margulisae (19), mucidus

TEPIDOPLEUSTES

Plioplateiidae

Plioplateia nodiformis

Dulichia antarctica

Podoceridae

Dulichiopsis brevidactylus

Laetmatophilus dabberi

PARADYOPEDOS (19) antarcticus (19)

PODOBOTHRUS bermudensis

Podocerus (danae) armatus, crenulatus, gloriosae, hoonsooi (19), (talegus) levuensis, madagascarensis, palinuroides, (walkeri) pedonculatus, tulearensis, ulreungensis (19)

PSEUDODULICHIA (19

STYLOXENODICE

Pontoporeiidae

Bathyporeia pseudopelagica, sardoa, sophiae, sunnivae DIPOREIA
MONOPOREIA

Priscomilitaridae

PRISCOMILITARIS tenuis

Salentinellidae

Salentinella carracensis, cazemierae, formenterae, longicaudata, (angelieri) var. longispina, meijersae, seviliensis

Sebidae

RELICTOSEBORGIA relicta Seba chiltoni, gloriosae, tropica Seborgia schieckei

Stegocephalidae

Andaniella integripes
Andaniexis tridentata
Euandania nonhiata
GLORANDANIOTIS fissicaudata
Parandaniexis dewitti, inermis
Phippsiella pseudophippsia
STEGOSOLADIUS

Stenothoidae

Antatelson tuberculatum AUROMETOPA HARDAMETOPA (19) KNYSMETOPA

Mesoproboloides cruxlorraina

Metopa gurjanovae (19), shoemakeri (19)

Metopella bousfieldi (19) Metopelloides erythrophthalmus

Metopoides andresi, angustus, antarcticus, foliodactylus, lanceolatus, latus, leptomanus, macromanus, serratus

Parametopa crassicomis, edentata

Parametopella texensis

Proboloides anophthalma, armatus, bellansantiniae

Prometopa dorsoundata Raumahara judithae

Stenothoe elachistoides, inermis, irakiensis, kaia

Stenula alexanderi (19)

THAUMATELSONELLA (19) kingelepha (19)

TOROMETOPA VONIMETOPA ZAIKOMETOPA

Stilipedidae

Alexandrella inermis, subchelata ASTYROIDES Bathypanoploea schellenbergi

Synopiidae

Garosyrrhoe luquei
Metatiron caecus
Synopia rotunda, triangula
Syrrhoites barnardi, capricornia, cornuta
TELSOSYNOPIA
Tiron bellairsi, galeatus, ovatibasis, triocellatus

Talitridae

AGILESTIA hylaea

AMERICORCHESTIA (19) barbarae (19), heardi (19), salomani (19)

Austrotroides crenatus, occidentalis, pectinalis

CARIBOTROIDES chiapensis (19), jamaicensis, newtoni (19), pecki (19), tuxtlensis (19)

CERRORCHESTIA (19) hyloraina (19)

CHELORCHESTIA

CHILTONORCHESTIA

CHROESTIA lota

EORCHESTIA

FLORESORCHESTIA guadalupensis (19)

HAWAIORCHESTIA

MACARORCHESTIA martini

MEGALORCHESTIA dexterae **MICRORCHESTIA** Orchestia gomeri (19), guancha, stocki (19) **PACIFORCHESTIA** PALMORCHESTIA epigaea (19), hypogaea PLATORCHESTIA chathamensis, munmui PROTAUSTROTROIDES victoriae **PROTORCHESTIA** PSEUDORCHESTIA mexicana Talitrus angulosus, vulgaris Talorchestia palawanensis, pelecaniformis TETHORCHESTIA antillensis, karukarae (19) **TRANSORCHESTIA TRASKORCHESTIA** Trinorchestia longiramus UHLORCHESTIA spartinophila

Temnophliantidae

HYSTRIPHLIAS

Tulearidae

TULEARUS thomassini

Urohaustoriidae

DIRIMUS tarlitus

GHEEGERUS garbaius

HUARPE escofeti

NARUNIUS tallerkus

TOTTUNGUS tungus

TULDARUS barinius, cangellus

Urohaustorius gunni, merkanius, parnggius, pentinus, perkeus, pulcus, urungari, wingaro, yurrus

WARRAGAIA rintouli

Urothoidae

Carangolia cornuta
PSEUDUROTHOE benthedii
Urothoe (gelasina) ambigua, intermedia, (grimaldii) japonica, marionis
Urothoides kurrawa, mabing, makoo, mammarta, odernae, tondea, waminoa

Vicmusiidae

VICMUSIA duplocoxa

Vitjazianidae

Vemana geyserensis

Zobrachoidae

BUMERALIUS bucholicus
CHONO angustiarum
PRANTINUS talanggi
TONOCOTE introflexidus, magellani

Ingolfiellidea

HANSENLIELLA
Ingolfiella australiana, bassiana, canariensis (19), cottarellii, dracospiritis (19), gobabis (19), grandispina, margaritae, quadridentata
STYGOBARNARDIA caprellinoides

Caprellidea

Aciconula acanthosoma

Caprella (acutifrons) annobonensis, brachiata, branchella, concinna (19), dissona, equina, generosa, glabra (19), iniqua, kominatoensis (19), liliata, manneringi, minima, minuscula, scitula, temperativa

Caprellina bispinosa (19)

Caprogammarus micropleopodus

Cercops minutus
Deutella schieckei

Fallotritella polynesica (19)

Heterocaprella krishnaensis

LIRIOPES lunatious

Mayerella acanthopoda

Paracaprella insolita

PARADICAPRELLA (19) brucei

PEDUNCULOCAPRELLA antennata

Postocaprella marcida

PREMOHEMIAEGINA sola

PRETRITELLA divina

PROTOTRITELLA ishigakensis

Pseudocercops pubescens QUADRISEGMENTUM

Cyamidae

Cyamus antarcticensis, orubraedon (19)

Platycyamus flaviscutatus (19)

Scutocyamus antipodensis

Syncyamus aequus

Hyperiidea

Amphithyrus muratus

Hyperia curticephala

LAXOHYPERIA vespuliformis

Lycaea lilia

Parapronoe elongata

Phronima bowmani (19), dunbari (19)

Primno abyssalis, evansi

Scina curvidactyla (19), exospina (19), hawaiensis, hurleyi (19), parasetigera (19).

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